SECTION 5

ASSEMBLIES AND SCHEMATICS

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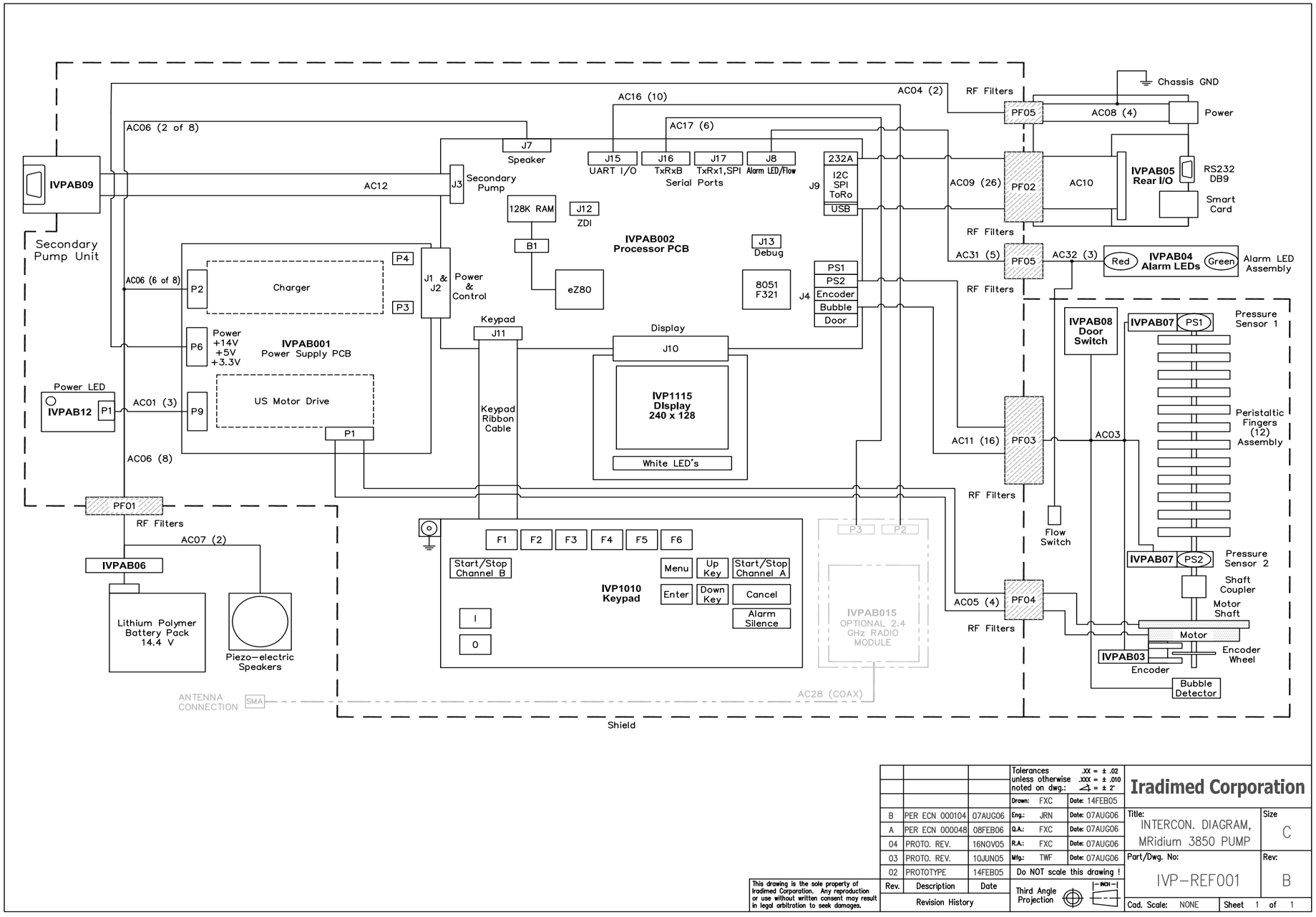
**Drawings associated with Version 2 (V2) 3850 and 3850R Pumps assemblies with Iradimed serial numbers IR5010778 and above.*

***Drawings associated with Version 2 (V2) 3850 and 3850R Pump and 3851 Sidecar with Optical Door Switch and HE09A Bubble Detector.*

****Drawings associated with Version 2 (V2) 3850 and 3850R Pumps and 3851 Sidecar with Optical Door Switch, HE09A Bubble Detector, and new Paint Color.*
This Series starts at:
3850/50R Serial Number IR5011293
3851 Serial Number IR5110617

If your product has parts not reflected in the drawings within this version of the 1125 Service Manual please contact Iradimed Technical Service at 1-407-677-8022 within the U.S., +001-407-677-8022 from outside the U.S. (during normal business hours EST), or by e-mail at techsupport@iradimed.com.



			Tolerances unless otherwise noted on dwg.:	.XX = ± .02 .XXX = ± .010 ∠ = ± 2°	Iradimed Corporation	
			Drawn: FXC	Date: 14FEB05		
B	PER ECN 000104	07AUG06	Eng.: JRN	Date: 07AUG06	Title: INTERCON. DIAGRAM, MRidium 3850 PUMP	Size C
A	PER ECN 000048	08FEB06	Q.A.: FXC	Date: 07AUG06		
04	PROTO. REV.	16NOV05	R.A.: FXC	Date: 07AUG06		
03	PROTO. REV.	10JUN05	Mfg.: TWF	Date: 07AUG06	Part/Dwg. No: IVP-REF001	Rev: B
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Rev.	Description	Date	Third Angle Projection		Cad. Scale: NONE	Sheet 1 of 1
Revision History						

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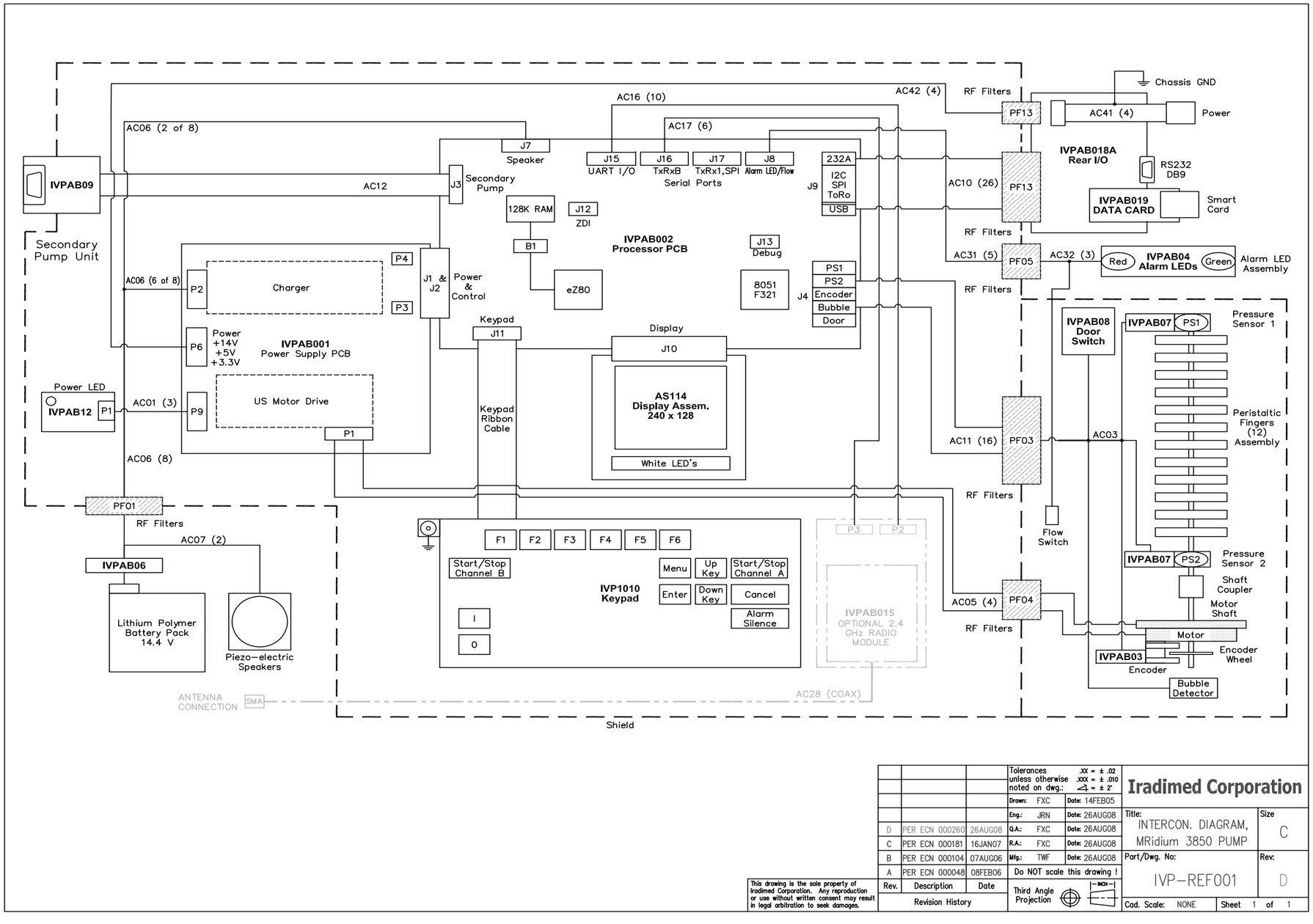
Figure 5-1. MRidium IV Pump Interconnect Diagram



Rev.	Description	Date
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C	PER ECN 000181	16JAN07
B	PER ECN 000104	07AUG06
A	PER ECN 000048	08FEB06

Revision History

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Title: INTERCON. DIAGRAM, MRidium 3850 PUMP

Size: C

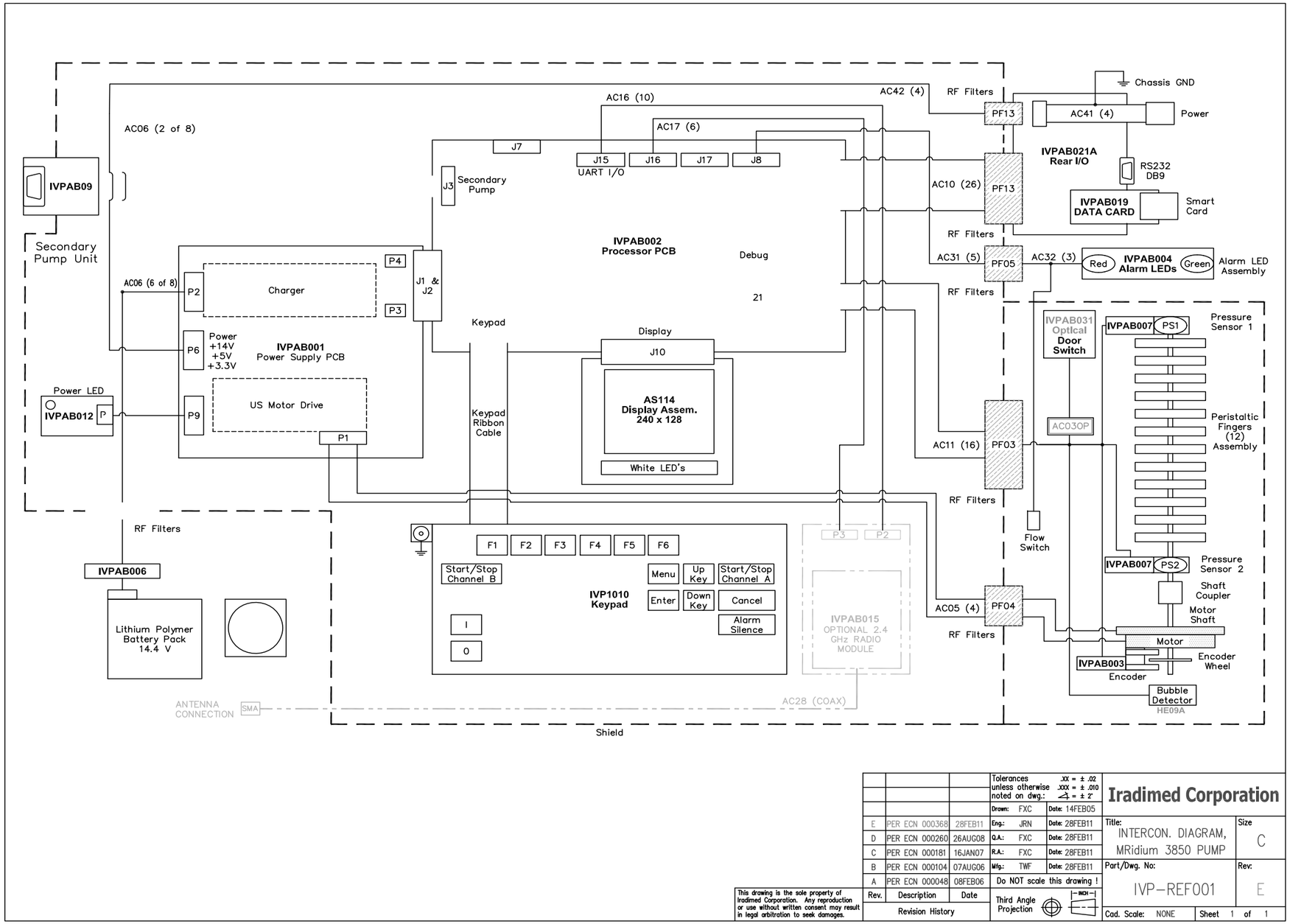
Part/Dwg. No: IVP–REF001

Rev: D

Cad. Scale: NONE

Sheet 1 of 1

Figure 5-2. MRidium IV Pump Interconnect Diagram (V2)*



Rev.	Description	Date
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C	PER ECN 000181	16JAN07
B	PER ECN 000104	07AUG06
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Revision History

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Mfg.: TWF Date: 28FEB11

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Title: INTERCON. DIAGRAM, MRidium 3850 PUMP
Size: C
Part/Dwg. No: IVP-REF001
Rev: E
Cad. Scale: NONE
Sheet 1 of 1

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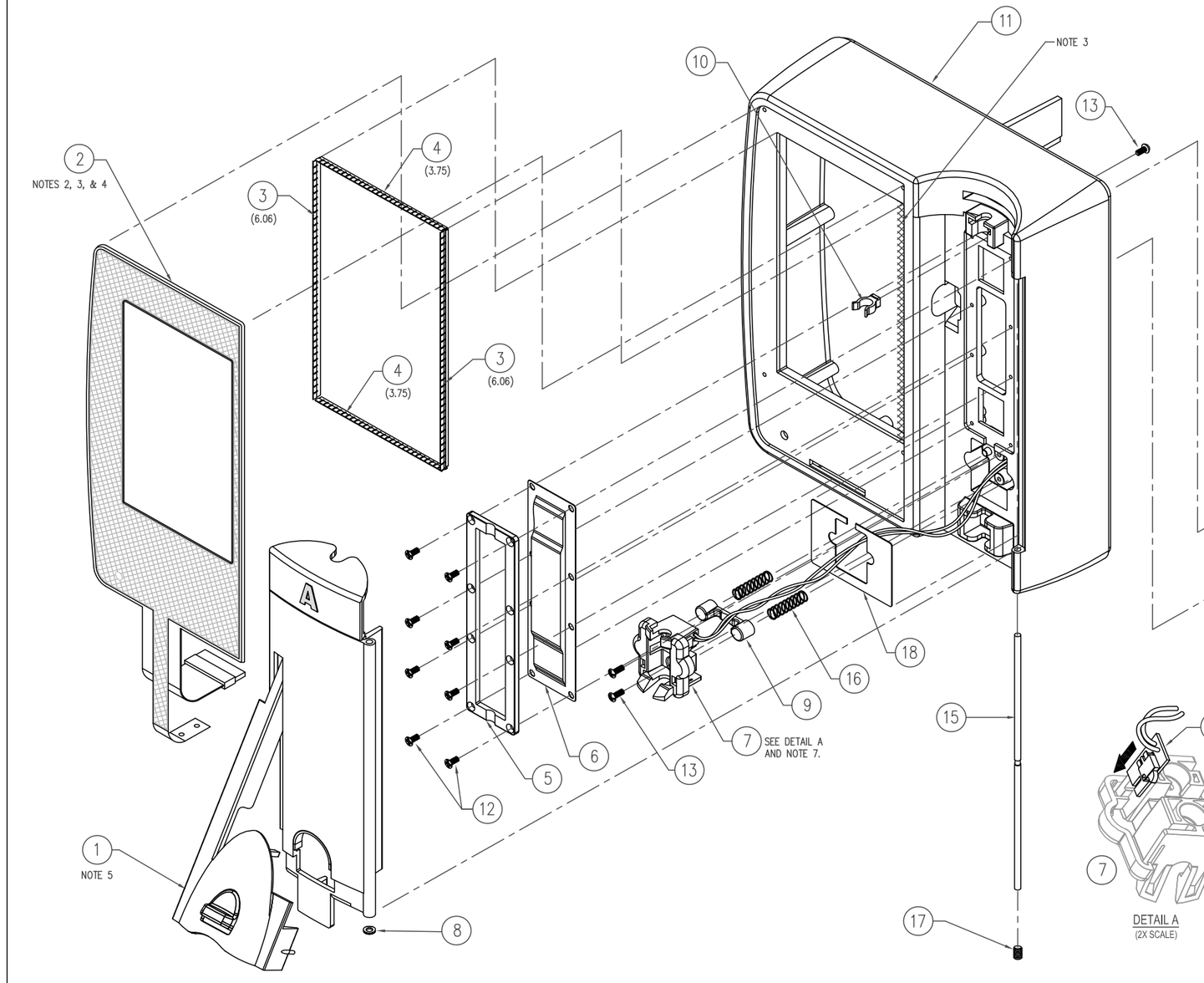
Figure 5-3. MRidium IV Pump Interconnect Diagram (V2-OPTIC)**



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. DO NOT INSTALL MEMBRANE KEYPAD (ITEM 2) UNTIL AFTER R/F SCREEN, LCD SUBASSY. AND PCB ASSY'S. (ITEMS 46, 34, 36, & 37 ON SHT. 2) HAVE BEEN ASSEMBLED TO FRONT HOUSING (ITEM 11).

3. BEFORE INSTALLING MEMBRANE KEYPAD (ITEM 2), PLACE AN .06–.12 WIDE BEAD OF RTV 732 SILICONE ADHESIVE OR EQUIVALENT ON THE R/F SCREEN (ITEM 46) IN THE AREA SHOWN IN ORDER TO AID THE ADHESION OF THE MEMBRANE KEYPAD (INSTALL KEYPAD BEFORE RTV DRIES).

4. WHEN INSTALLING THE MEMBRANE KEYPAD (ITEM 2), FEED THE CONNECTOR & GROUNDING TAIL THRU SLOT AT BOTTOM OF KEYPAD RECESS ON FRONT HOUSING (ITEM 11) ASSURING A SNUG FIT AGAINST THE LOWER EDGE OF THE RECESS AND MEMBRANE KEYPAD.

5. ATTACH DOOR SUBASSY. (ITEM 1) TO FRONT HOUSING (ITEM 11) USING THE DOOR PIN (ITEM 15). SLIDE PIN THRU BOTTOM CORNER OF HOUSING UP THRU NYLON WASHER (ITEM 8) AND DOOR HINGE UNTIL IT SEATS IN THE UPPER HINGE HOLE OF THE FRONT HOUSING. INSTALL #8–32 SET SCREW (ITEM 17) TO HOLD HINGE PIN IN PLACE.

6. ASSEMBLE IVPAB016 (ITEM 20) FREE FLOW SWITCH TO BACK OF IVP1047 CARRIER AS SHOWN BY PRESSING INTO PLACE USING SLOT ON PCB MATCHED TO RIB ON PLASTIC CARRIER (SEE DETAIL A). ROUTE WIRES THROUGH HOLE IN CHASSIS FRONT (INSIDE CARRIER CUTOUT) AND PULL THROUGH FROM REAR OF FRONT HOUSING.

ITEM	PART NO.	QTY.	DESCRIPTION
21	NS19	2	SCREW, #4–40 X 3/8LG. PHMS, XR–SS316
20	IVPAB016	1	PCBA, FLOW STOP SWITCH, 3850/3851
19	AS104	1	SUBASSEMBLY, SPRING LATCH
18	LB2011	1	LABEL, SET LOAD PICTORIAL, MRIVP
17	NS34	1	SCREW, SET, #8–32 X 1/4LG. SOC. CP. PT.–SS316
16	HM17	2	SPRING, SPRING ARM COMPRESSION
15	HM13	1	HINGE PIN, DOOR, MRIVP
14	NS01	2	SCREW, #2–56 X 3/16LG. PHMS, XR–SS316
13	NS11	21	SCREW, #4–40 X 3/16LG. PHMS, XR–SS316
12	NS17	8	SCREW, #4–40 X 1/4LG. FHMS, XR–SS316
11	IVP1018P	1	FRONT HOUSING, PAINTED
10	IVP1022	1	CLIP, TUBE RETAINER
9	IVP1046	1	SPRING ARM ACTUATOR, FREE FLOW PREVENTER
8	NW02	1	WASHER, FLAT, .250 OD. X .140 ID. X .032 THK.–NY, KEYSTONE #3132
7	IVP1047	1	CARRIER, FLOW STOP
6	IVP1070	1	GASKET, PUMP FINGER (URETHANE)
5	IVP1014	1	SEAL RING, PUMP FINGER
4	HG04	7.50	GASKET, RF, CLIP, .050 THK. X .300 WD.
3	HG02	12.12	GASKET, RF, TWIST, .030 THK. X .230 WD.
2	IVP1008	1	MEMBRANE KEYPAD, 3850/3855
1	AS112	1	SUB–ASSEM, FRONT DOOR, 3850 LATCHING

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Drawn: JRN Date: 14FEB05

Rev.	Description	Date
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H	ECN 000143	05DEC06
G	ECN 000127	01SEP06

Revision History

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Q.A.: FXC Date: 02JUL07
R.A.: FXC Date: 02JUL07
Mfg.: TWF Date: 02JUL07
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Title: ASSEMBLY, 3850/3850R MR INFUSION PUMP

Size: D

Part/Dwg. No: AF3850/3850R

Rev: L

Cad. Scale: NA

Sheet 1 of 4

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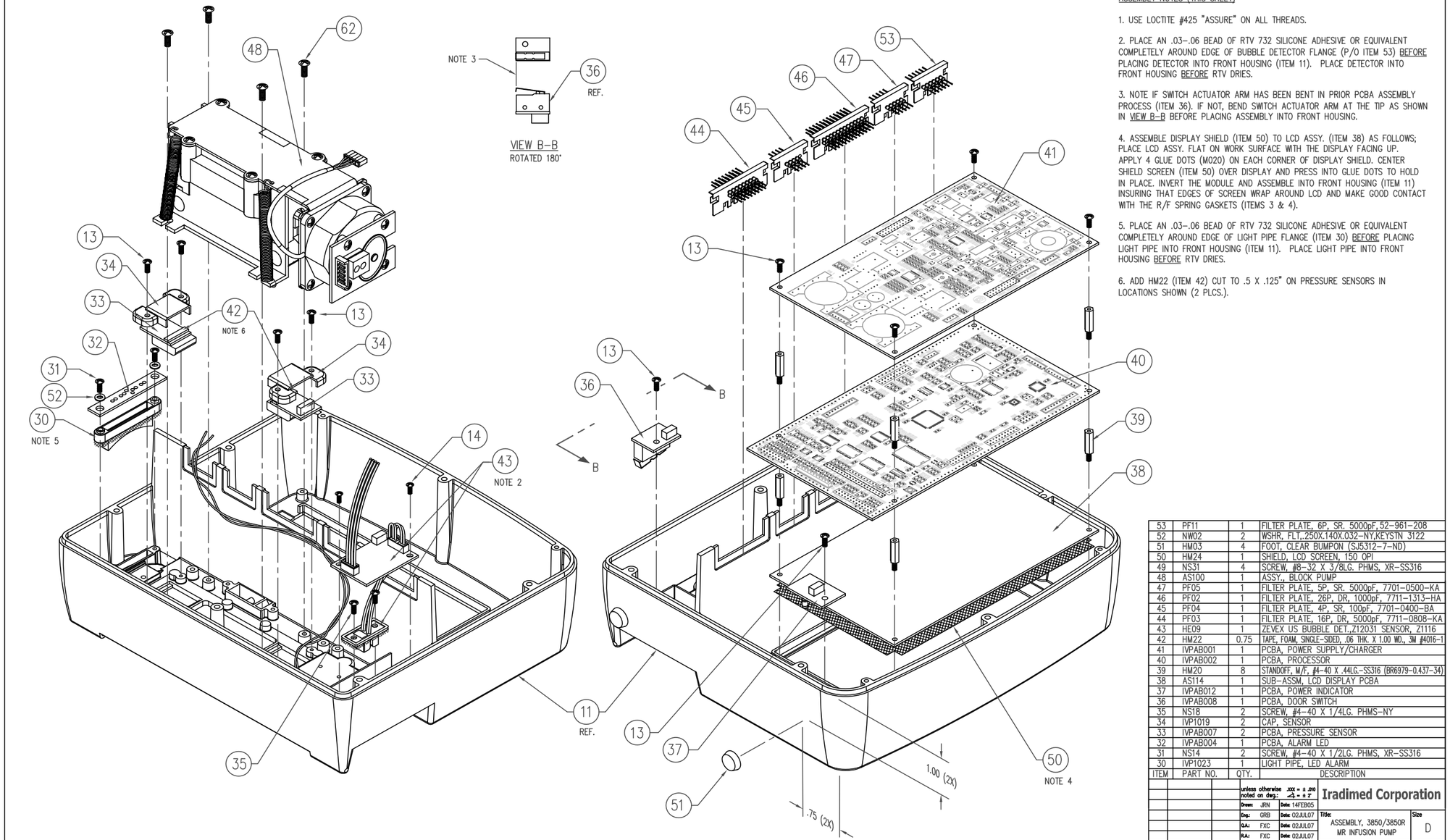
LF21 Rev. A

Figure 5-4. 3850 MR Pump Assembly AF3850 Sheet 1 of 4



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. PLACE AN .03–.06 BEAD OF RTV 732 SILICONE ADHESIVE OR EQUIVALENT COMPLETELY AROUND EDGE OF BUBBLE DETECTOR FLANGE (P/O ITEM 53) BEFORE PLACING DETECTOR INTO FRONT HOUSING (ITEM 11). PLACE DETECTOR INTO FRONT HOUSING BEFORE RTV DRIES.

3. NOTE IF SWITCH ACTUATOR ARM HAS BEEN BENT IN PRIOR PCBA ASSEMBLY PROCESS (ITEM 36). IF NOT, BEND SWITCH ACTUATOR ARM AT THE TIP AS SHOWN IN VIEW B–B BEFORE PLACING ASSEMBLY INTO FRONT HOUSING.

4. ASSEMBLE DISPLAY SHIELD (ITEM 50) TO LCD ASSY. (ITEM 38) AS FOLLOWS; PLACE LCD ASSY. FLAT ON WORK SURFACE WITH THE DISPLAY FACING UP. APPLY 4 GLUE DOTS (M020) ON EACH CORNER OF DISPLAY SHIELD. CENTER SHIELD SCREEN (ITEM 50) OVER DISPLAY AND PRESS INTO GLUE DOTS TO HOLD IN PLACE. INVERT THE MODULE AND ASSEMBLE INTO FRONT HOUSING (ITEM 11) INSURING THAT EDGES OF SCREEN WRAP AROUND LCD AND MAKE GOOD CONTACT WITH THE R/F SPRING GASKETS (ITEMS 3 & 4).

5. PLACE AN .03–.06 BEAD OF RTV 732 SILICONE ADHESIVE OR EQUIVALENT COMPLETELY AROUND EDGE OF LIGHT PIPE FLANGE (ITEM 30) BEFORE PLACING LIGHT PIPE INTO FRONT HOUSING (ITEM 11). PLACE LIGHT PIPE INTO FRONT HOUSING BEFORE RTV DRIES.

6. ADD HM22 (ITEM 42) CUT TO .5 X .125" ON PRESSURE SENSORS IN LOCATIONS SHOWN (2 PLCS.).

ITEM	PART NO.	QTY.	DESCRIPTION
53	PF11	1	FILTER PLATE, 6P, SR. 5000pF,52–961–208
52	NW02	2	WSHR, FLT,.250X.140X.032–NY,KEYSTN 3122
51	HM03	4	FOOT, CLEAR BUMPON (SJ5312–7–ND)
50	HM24	1	SHIELD, LCD SCREEN, 150 OPI
49	NS31	4	SCREW, #8–32 X 3/8LG. PHMS, XR–SS316
48	AS100	1	ASSY., BLOCK PUMP
47	PF05	1	FILTER PLATE, 5P, SR. 5000pF, 7701–0500–KA
46	PF02	1	FILTER PLATE, 26P, DR, 1000pF, 7711–1313–HA
45	PF04	1	FILTER PLATE, 4P, SR, 100pF, 7701–0400–BA
44	PF03	1	FILTER PLATE, 16P, DR, 5000pF, 7711–0808–KA
43	HE09	1	ZEVEX US BUBBLE DET.,Z12031 SENSOR, Z1116
42	HM22	0.75	TAPE, FOAM, SINGLE–SIDED, .06 THK. X 1.00 WD., 3M #4016–1
41	IVPAB001	1	PCBA, POWER SUPPLY/CHARGER
40	IVPAB002	1	PCBA, PROCESSOR
39	HM20	8	STANDOFF, M/F, #4–40 X .44LG.–SS316 (BR6979–0.437–34)
38	AS114	1	SUB–ASSM, LCD DISPLAY PCBA
37	IVPAB012	1	PCBA, POWER INDICATOR
36	IVPAB008	1	PCBA, DOOR SWITCH
35	NS18	2	SCREW, #4–40 X 1/4LG. PHMS–NY
34	IVP1019	2	CAP, SENSOR
33	IVPAB007	2	PCBA, PRESSURE SENSOR
32	IVPAB004	1	PCBA, ALARM LED
31	NS14	2	SCREW, #4–40 X 1/2LG. PHMS, XR–SS316
30	IVP1023	1	LIGHT PIPE, LED ALARM

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R.A.: FXC Date: 02JUL07
Mfg.: TWF Date: 02JUL07

Title: ASSEMBLY, 3850/3850R MR INFUSION PUMP
Size: D
Part/Dwg. No: AF3850/3850R
Rev: L
Cod. Scale: NA
Sheet 2 of 4

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SEE SHEET 1

Rev.	Description	Date
Revision History		

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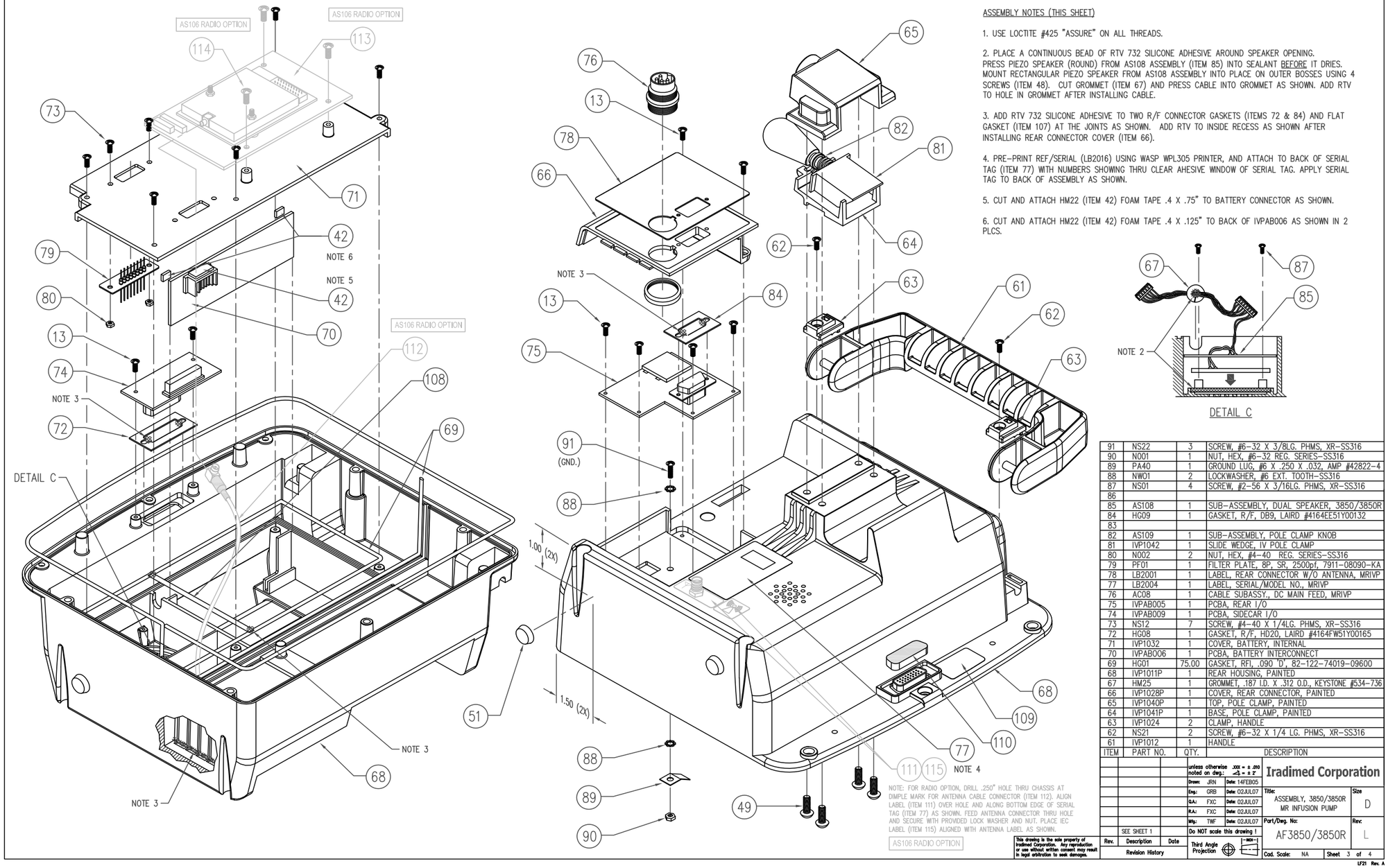
Figure 5-5. 3850 MR Pump Assembly AF3850 Sheet 2 of 4



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. PLACE A CONTINUOUS BEAD OF RTV 732 SILICONE ADHESIVE AROUND SPEAKER OPENING. PRESS PIEZO SPEAKER (ROUND) FROM AS108 ASSEMBLY (ITEM 85) INTO SEALANT BEFORE IT DRIES. MOUNT RECTANGULAR PIEZO SPEAKER FROM AS108 ASSEMBLY INTO PLACE ON OUTER BOSSES USING 4 SCREWS (ITEM 48). CUT GROMMET (ITEM 67) AND PRESS CABLE INTO GROMMET AS SHOWN. ADD RTV TO HOLE IN GROMMET AFTER INSTALLING CABLE.

3. ADD RTV 732 SILICONE ADHESIVE TO TWO R/F CONNECTOR GASKETS (ITEMS 72 & 84) AND FLAT GASKET (ITEM 107) AT THE JOINTS AS SHOWN. ADD RTV TO INSIDE RECESS AS SHOWN AFTER INSTALLING REAR CONNECTOR COVER (ITEM 66).

4. PRE-PRINT REF/SERIAL (LB2016) USING WASP WPL305 PRINTER, AND ATTACH TO BACK OF SERIAL TAG (ITEM 77) WITH NUMBERS SHOWING THRU CLEAR AHESIVE WINDOW OF SERIAL TAG. APPLY SERIAL TAG TO BACK OF ASSEMBLY AS SHOWN.

5. CUT AND ATTACH HM22 (ITEM 42) FOAM TAPE .4 X .75" TO BATTERY CONNECTOR AS SHOWN.

6. CUT AND ATTACH HM22 (ITEM 42) FOAM TAPE .4 X .125" TO BACK OF IVPAB006 AS SHOWN IN 2 PLCS.

DETAIL C

ITEM	PART NO.	QTY.	DESCRIPTION
91	NS22	3	SCREW, #6-32 X 3/8LG. PHMS, XR-SS316
90	N001	1	NUT, HEX, #6-32 REG. SERIES-SS316
89	PA40	1	GROUND LUG, #6 X .250 X .032, AMP #42822-4
88	NW01	2	LOCKWASHER, #6 EXT. TOOTH-SS316
87	NS01	4	SCREW, #2-56 X 3/16LG. PHMS, XR-SS316
86			
85	AS108	1	SUB-ASSEMBLY, DUAL SPEAKER, 3850/3850R
84	HG09	1	GASKET, R/F, DB9, LAIRD #4164EE51Y00132
83			
82	AS109	1	SUB-ASSEMBLY, POLE CLAMP KNOB
81	IVP1042	1	SLIDE WEDGE, IV POLE CLAMP
80	N002	2	NUT, HEX, #4-40 REG. SERIES-SS316
79	PF01	1	FILTER PLATE, 8P, SR, 2500pf, 7911-08090-KA
78	LB2001	1	LABEL, REAR CONNECTOR W/O ANTENNA, MRIVP
77	LB2004	1	LABEL, SERIAL/MODEL NO., MRIVP
76	AC08	1	CABLE SUBASSY., DC MAIN FEED, MRIVP
75	IVPAB005	1	PCBA, REAR I/O
74	IVPAB009	1	PCBA, SIDECAR I/O
73	NS12	7	SCREW, #4-40 X 1/4LG. PHMS, XR-SS316
72	HG08	1	GASKET, R/F, HD20, LAIRD #4164FW51Y00165
71	IVP1032	1	COVER, BATTERY, INTERNAL
70	IVPAB006	1	PCBA, BATTERY INTERCONNECT
69	HG01	75.00	GASKET, RFI, .090 'D', 82-122-74019-09600
68	IVP1011P	1	REAR HOUSING, PAINTED
67	HM25	1	GROMMET, .187 I.D. X .312 O.D., KEYSTONE #534-736
66	IVP1028P	1	COVER, REAR CONNECTOR, PAINTED
65	IVP1040P	1	TOP, POLE CLAMP, PAINTED
64	IVP1041P	1	BASE, POLE CLAMP, PAINTED
63	IVP1024	2	CLAMP, HANDLE
62	NS21	2	SCREW, #6-32 X 1/4 LG. PHMS, XR-SS316
61	IVP1012	1	HANDLE

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Q.A.: FXC Date: 02JUL07
R.A.: FXC Date: 02JUL07
Mfg.: TWF Date: 02JUL07

Title: ASSEMBLY, 3850/3850R MR INFUSION PUMP
Size: D
Part/Dwg. No: AF3850/3850R
Rev: L
Cad. Scale: NA
Sheet 3 of 4

Do NOT scale this drawing !

SEE SHEET 1

Third Angle Projection

Rev.	Description	Date

Revision History

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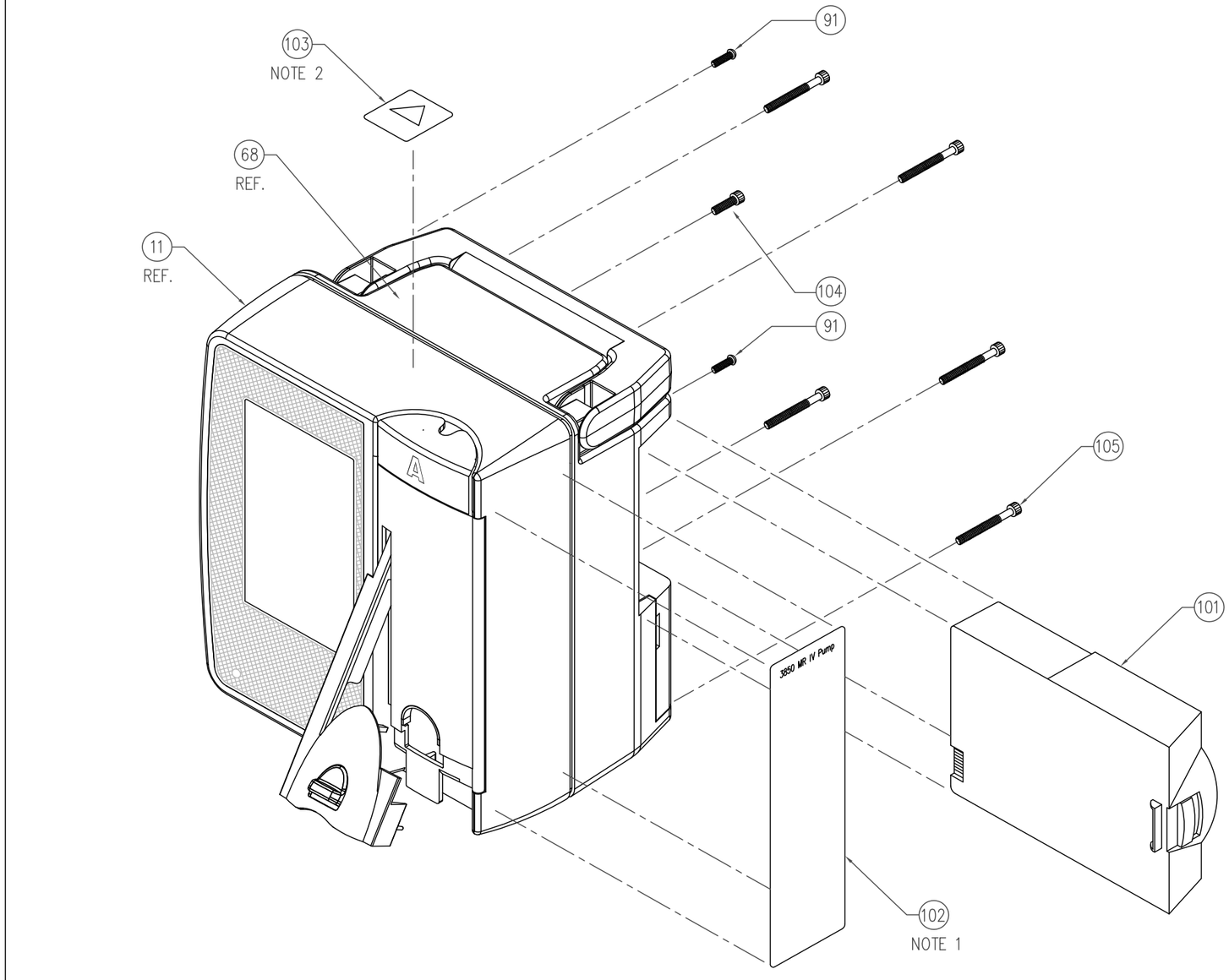
LF21 Rev. A

Figure 5-6. 3850 MR Pump Assembly AF3850 Sheet 3 of 4



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. ATTACH LABEL (ITEM 102) TO SIDE OF FRONT HOUSING (ITEM 11) CENTERED AS SHOWN.

3. ATTACH LABEL (ITEM 103) TO TOP OF FRONT HOUSING (ITEM 11) CENTERED AS SHOWN AND LOCATED .25 ±.06 FROM SEAM.

AS106 RADIO OPTION

115	LB2026	1	LABEL, IEC 60417 SYMBOL, .75" X .75"
114	NS21	3	SCREW, #6-32 X 1/4LG. PHMS, XR-SS316
113	IVPAB015	1	PCBA, RADIO MOUNT/ INTERCONNECT
112	AC28	1	CABLE, ANT., RG178, AEROCOMM 1300-00023
111	LB2005	1	LABEL, ANTENNA CONN, 3850

ITEM	PART NO.	QTY.	DESCRIPTION
110	HM41	1	DB15F DUST CAP, SOCKET, 538-DA-59-20
109	LB2010	1	LABEL, SIDECAR CONNECTOR
108	HG07	3.75"	GASKET, .02 X .157, FAB/FOAM, PSA
107			
106			
105	NS33	5	#8-32 X 1-1/2LG. SHCS-SS316
104	NS32	3	#8-32 X 1/2LG. SHCS-SS316
103	LB2003	1	LABEL, MRIVP, MR COMPATIBLE SYMBOL
102	LB2002	1	LABEL, MRIVP, ABBREV. OPERATING INST.
101	1133	1	MRI COMPATIBLE BATTERY PACK, 14.8V/5.8A

unless otherwise noted on dwg.: .XXX = ± .010, ∠ = ± 2°

Iradimed Corporation

Drawn: JRN Date: 14FEB05
Eng.: GRB Date: 02JUL07
Q.A.: FXC Date: 02JUL07
R.A.: FXC Date: 02JUL07
Mfg.: TWF Date: 02JUL07

Title: ASSEMBLY, 3850/3850R MR INFUSION PUMP
Size: D
Part/Dwg. No: AF3850/3850R
Rev.: L

SEE SHEET 1
Do NOT scale this drawing !

Rev.	Description	Date
Revision History		

Third Angle Projection

Cad. Scale: NA Sheet 4 of 4

LF21 Rev. A

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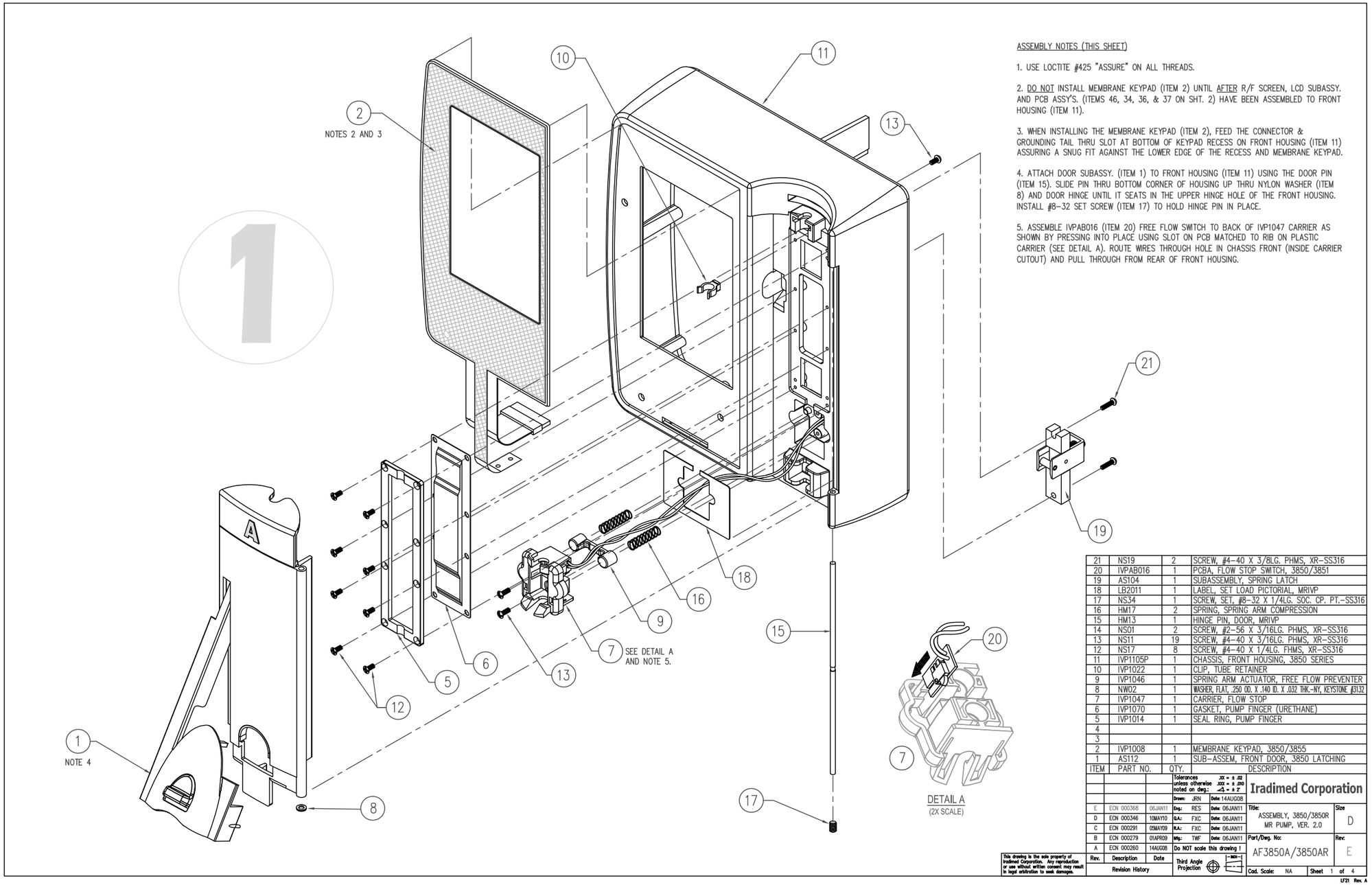
Figure 5-7. 3850 MR Pump Assembly AF3850 Sheet 4 of 4



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. DO NOT INSTALL MEMBRANE KEYPAD (ITEM 2) UNTIL AFTER R/F SCREEN, LCD SUBASSY. AND PCB ASSY'S. (ITEMS 46, 34, 36, & 37 ON SHT. 2) HAVE BEEN ASSEMBLED TO FRONT HOUSING (ITEM 11).

3. WHEN INSTALLING THE MEMBRANE KEYPAD (ITEM 2), FEED THE CONNECTOR & GROUNDING TAIL THRU SLOT AT BOTTOM OF KEYPAD RECESS ON FRONT HOUSING (ITEM 11) ASSURING A SNUG FIT AGAINST THE LOWER EDGE OF THE RECESS AND MEMBRANE KEYPAD.

4. ATTACH DOOR SUBASSY. (ITEM 1) TO FRONT HOUSING (ITEM 11) USING THE DOOR PIN (ITEM 15). SLIDE PIN THRU BOTTOM CORNER OF HOUSING UP THRU NYLON WASHER (ITEM 8) AND DOOR HINGE UNTIL IT SEATS IN THE UPPER HINGE HOLE OF THE FRONT HOUSING. INSTALL #8-32 SET SCREW (ITEM 17) TO HOLD HINGE PIN IN PLACE.

5. ASSEMBLE IVPAB016 (ITEM 20) FREE FLOW SWITCH TO BACK OF IVP1047 CARRIER AS SHOWN BY PRESSING INTO PLACE USING SLOT ON PCB MATCHED TO RIB ON PLASTIC CARRIER (SEE DETAIL A). ROUTE WIRES THROUGH HOLE IN CHASSIS FRONT (INSIDE CARRIER CUTOUT) AND PULL THROUGH FROM REAR OF FRONT HOUSING.

ITEM	PART NO.	QTY.	DESCRIPTION
21	NS19	2	SCREW, #4-40 X 3/8LG. PHMS, XR-SS316
20	IVPAB016	1	PCBA, FLOW STOP SWITCH, 3850/3851
19	AS104	1	SUBASSEMBLY, SPRING LATCH
18	LB2011	1	LABEL, SET LOAD PICTORIAL, MRIVP
17	NS34	1	SCREW, SET, #8-32 X 1/4LG. SOC. CP. PT.-SS316
16	HM17	2	SPRING, SPRING ARM COMPRESSION
15	HM13	1	HINGE PIN, DOOR, MRIVP
14	NS01	2	SCREW, #2-56 X 3/16LG. PHMS, XR-SS316
13	NS11	19	SCREW, #4-40 X 3/16LG. PHMS, XR-SS316
12	NS17	8	SCREW, #4-40 X 1/4LG. FHMS, XR-SS316
11	IVP1105P	1	CHASSIS, FRONT HOUSING, 3850 SERIES
10	IVP1022	1	CLIP, TUBE RETAINER
9	IVP1046	1	SPRING ARM ACTUATOR, FREE FLOW PREVENTER
8	NW02	1	WASHER, FLAT, .250 OD. X .140 ID. X .032 THK.-NY, KEYSTONE #3132
7	IVP1047	1	CARRIER, FLOW STOP
6	IVP1070	1	GASKET, PUMP FINGER (URETHANE)
5	IVP1014	1	SEAL RING, PUMP FINGER
4			
3			
2	IVP1008	1	MEMBRANE KEYPAD, 3850/3855
1	AS112	1	SUB-ASSEM, FRONT DOOR, 3850 LATCHING

Rev.	Description	Date
E	ECN 000368	06JAN11
D	ECN 000346	10MAY10
C	ECN 000291	05MAY09
B	ECN 000279	01APR09
A	ECN 000260	14AUG08

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 14AUG08
Eng.: RES Date: 06JAN11
Q.A.: FXC Date: 06JAN11
R.A.: FXC Date: 06JAN11
Mfg.: TWF Date: 06JAN11

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: ASSEMBLY, 3850/3850R MR PUMP, VER. 2.0

Size: D

Part/Dwg. No: AF3850A/3850AR

Rev: E

Cad. Scale: NA

Sheet 1 of 4

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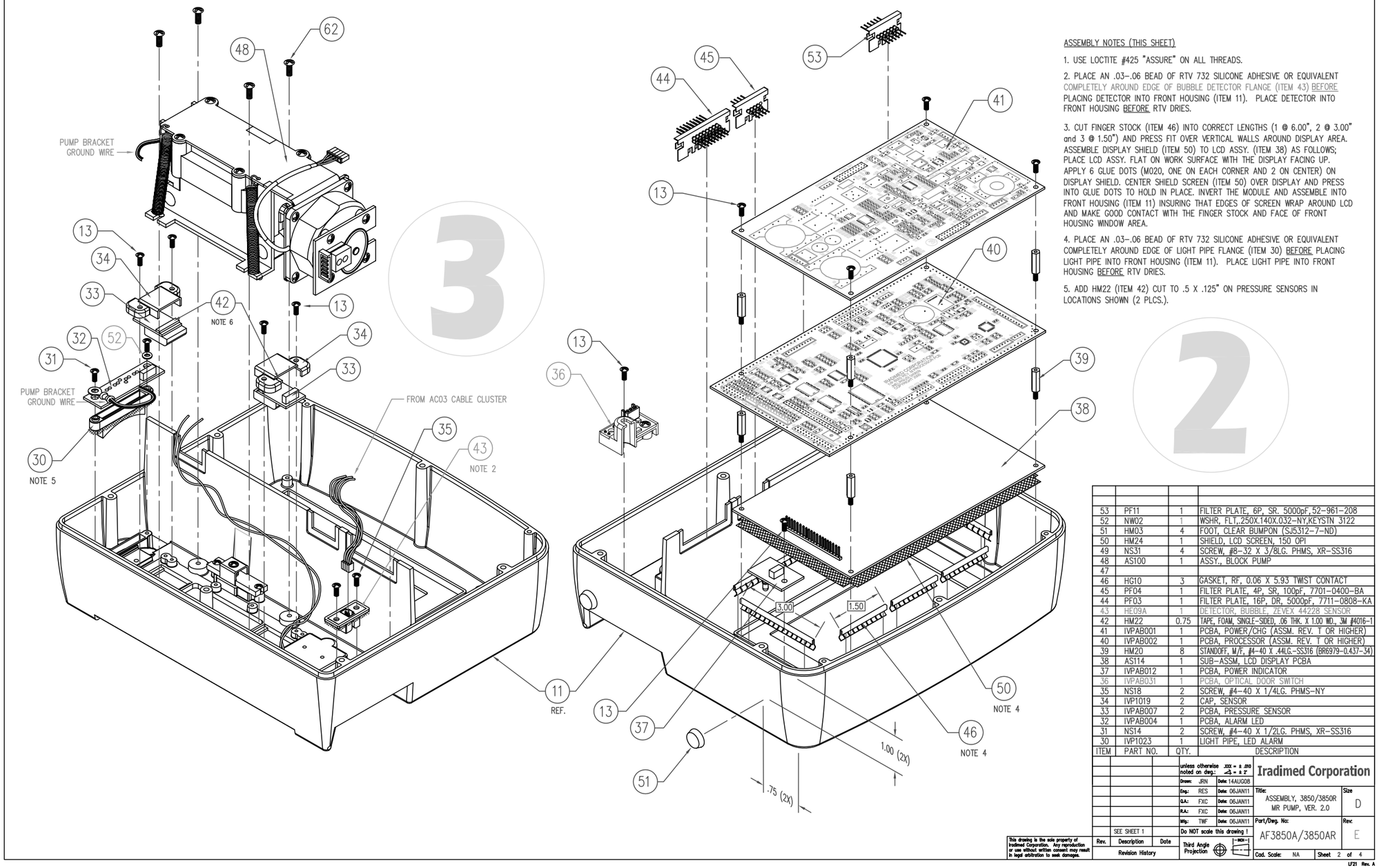
LF21 Rev. A

Figure 5-8. 3850 MR Pump Assembly AF3850A Sheet 1 of 4*


PUMP BRACKET GROUND WIRE
PUMP BRACKET GROUND WIRE
NOTE 6
NOTE 5
NOTE 2
FROM AC03 CABLE CLUSTER
NOTE 4
NOTE 4
REF.
1.00 (2X)
.75 (2X)
3.00
1.50
ASSEMBLY NOTES (THIS SHEET)
1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.
2. PLACE AN .03-.06 BEAD OF RTV 732 SILICONE ADHESIVE OR EQUIVALENT COMPLETELY AROUND EDGE OF BUBBLE DETECTOR FLANGE (ITEM 43) BEFORE PLACING DETECTOR INTO FRONT HOUSING (ITEM 11). PLACE DETECTOR INTO FRONT HOUSING BEFORE RTV DRIES.
3. CUT FINGER STOCK (ITEM 46) INTO CORRECT LENGTHS (1 @ 6.00", 2 @ 3.00" and 3 @ 1.50") AND PRESS FIT OVER VERTICAL WALLS AROUND DISPLAY AREA. ASSEMBLE DISPLAY SHIELD (ITEM 50) TO LCD ASSY. (ITEM 38) AS FOLLOWS; PLACE LCD ASSY. FLAT ON WORK SURFACE WITH THE DISPLAY FACING UP. APPLY 6 GLUE DOTS (M020, ONE ON EACH CORNER AND 2 ON CENTER) ON DISPLAY SHIELD. CENTER SHIELD SCREEN (ITEM 50) OVER DISPLAY AND PRESS INTO GLUE DOTS TO HOLD IN PLACE. INVERT THE MODULE AND ASSEMBLE INTO FRONT HOUSING (ITEM 11) INSURING THAT EDGES OF SCREEN WRAP AROUND LCD AND MAKE GOOD CONTACT WITH THE FINGER STOCK AND FACE OF FRONT HOUSING WINDOW AREA.
4. PLACE AN .03-.06 BEAD OF RTV 732 SILICONE ADHESIVE OR EQUIVALENT COMPLETELY AROUND EDGE OF LIGHT PIPE FLANGE (ITEM 30) BEFORE PLACING LIGHT PIPE INTO FRONT HOUSING (ITEM 11). PLACE LIGHT PIPE INTO FRONT HOUSING BEFORE RTV DRIES.
5. ADD HM22 (ITEM 42) CUT TO .5 X .125" ON PRESSURE SENSORS IN LOCATIONS SHOWN (2 PLCS.).
3
2

ITEM	PART NO.	QTY.	DESCRIPTION
53	PF11	1	FILTER PLATE, 6P, SR, 5000pF, 52-961-208
52	NW02	1	WSHR, FLT,.250X.140X.032-NY,KEYSTN 3122
51	HM03	4	FOOT, CLEAR BUMPON (SJ5312-7-ND)
50	HM24	1	SHIELD, LCD SCREEN, 150 OPI
49	NS31	4	SCREW, #8-32 X 3/8LG. PHMS, XR-SS316
48	AS100	1	ASSY., BLOCK PUMP
47			
46	HG10	3	GASKET, RF, 0.06 X 5.93 TWIST CONTACT
45	PF04	1	FILTER PLATE, 4P, SR, 100pF, 7701-0400-BA
44	PF03	1	FILTER PLATE, 16P, DR, 5000pF, 7711-0808-KA
43	HE09A	1	DETECTOR, BUBBLE, ZEVEX 44228 SENSOR
42	HM22	0.75	TAPE, FOAM, SINGLE-SIDED, .06 THK. X 1.00 WD., 3M #4016-1
41	IVPAB001	1	PCBA, POWER/CHG (ASSM. REV. T OR HIGHER)
40	IVPAB002	1	PCBA, PROCESSOR (ASSM. REV. T OR HIGHER)
39	HM20	8	STANDOFF, M/F, #4-40 X .44LG.-SS316 (BR6979-0.437-34)
38	AS114	1	SUB-ASSM, LCD DISPLAY PCBA
37	IVPAB012	1	PCBA, POWER INDICATOR
36	IVPAB031	1	PCBA, OPTICAL DOOR SWITCH
35	NS18	2	SCREW, #4-40 X 1/4LG. PHMS-NY
34	IVP1019	2	CAP, SENSOR
33	IVPAB007	2	PCBA, PRESSURE SENSOR
32	IVPAB004	1	PCBA, ALARM LED
31	NS14	2	SCREW, #4-40 X 1/2LG. PHMS, XR-SS316
30	IVP1023	1	LIGHT PIPE, LED ALARM

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Rev.	Description	Date
	SEE SHEET 1	

Revision History

unless otherwise noted on dwg.: XXX = ± .010, ∠ = ± 1°

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Drawn:	JRN	Date: 14AUG08
Eng.:	RES	Date: 06JAN11
Q.A.:	FXC	Date: 06JAN11
R.A.:	FXC	Date: 06JAN11
Mfg.:	TWF	Date: 06JAN11

Title: ASSEMBLY, 3850/3850R MR PUMP, VER. 2.0

Size: D

Part/Dwg. No: AF3850A/3850AR

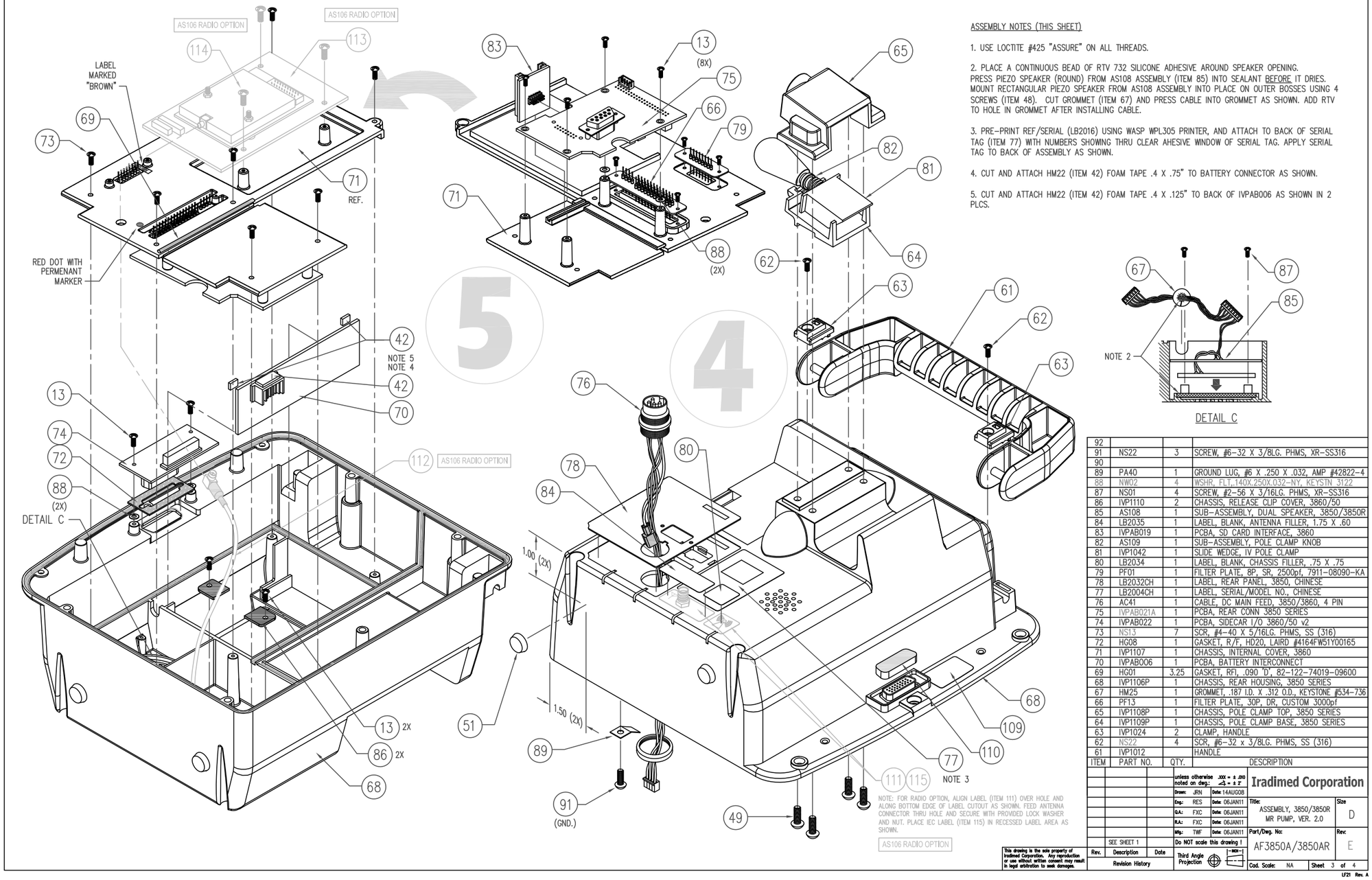
Rev: E

Cad. Scale: NA

Sheet 2 of 4

LF21 Rev. A

Figure 5-9. 3850 MR Pump Assembly AF3850A Sheet 2 of 4*



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. PLACE A CONTINUOUS BEAD OF RTV 732 SILICONE ADHESIVE AROUND SPEAKER OPENING. PRESS PIEZO SPEAKER (ROUND) FROM AS108 ASSEMBLY (ITEM 85) INTO SEALANT BEFORE IT DRIES. MOUNT RECTANGULAR PIEZO SPEAKER FROM AS108 ASSEMBLY INTO PLACE ON OUTER BOSSES USING 4 SCREWS (ITEM 48). CUT GROMMET (ITEM 67) AND PRESS CABLE INTO GROMMET AS SHOWN. ADD RTV TO HOLE IN GROMMET AFTER INSTALLING CABLE.

3. PRE-PRINT REF/SERIAL (LB2016) USING WASP WPL305 PRINTER, AND ATTACH TO BACK OF SERIAL TAG (ITEM 77) WITH NUMBERS SHOWING THRU CLEAR AHESIVE WINDOW OF SERIAL TAG. APPLY SERIAL TAG TO BACK OF ASSEMBLY AS SHOWN.

4. CUT AND ATTACH HM22 (ITEM 42) FOAM TAPE .4 X .75" TO BATTERY CONNECTOR AS SHOWN.

5. CUT AND ATTACH HM22 (ITEM 42) FOAM TAPE .4 X .125" TO BACK OF IVPAB006 AS SHOWN IN 2 PLCS.

ITEM	PART NO.	QTY.	DESCRIPTION
92			
91	NS22	3	SCREW, #6-32 X 3/8LG. PHMS, XR-SS316
90			
89	PA40	1	GROUND LUG, #6 X .250 X .032, AMP #42822-4
88	NW02	4	WSHR, FLT,.140X.250X.032-NY, KEYSTN 3122
87	NS01	4	SCREW, #2-56 X 3/16LG. PHMS, XR-SS316
86	IVP1110	2	CHASSIS, RELEASE CUP COVER, 3860/50
85	AS108	1	SUB-ASSEMBLY, DUAL SPEAKER, 3850/3850R
84	LB2035	1	LABEL, BLANK, ANTENNA FILLER, 1.75 X .60
83	IVPAB019	1	PCBA, SD CARD INTERFACE, 3860
82	AS109	1	SUB-ASSEMBLY, POLE CLAMP KNOB
81	IVP1042	1	SLIDE WEDGE, IV POLE CLAMP
80	LB2034	1	LABEL, BLANK, CHASSIS FILLER, .75 X .75
79	PF01	1	FILTER PLATE, 8P, SR, 2500pf, 7911-08090-KA
78	LB2032CH	1	LABEL, REAR PANEL, 3850, CHINESE
77	LB2004CH	1	LABEL, SERIAL/MODEL NO., CHINESE
76	AC41	1	CABLE, DC MAIN FEED, 3850/3860, 4 PIN
75	IVPAB021A	1	PCBA, REAR CONN 3850 SERIES
74	IVPAB022	1	PCBA, SIDECAR I/O 3860/50 v2
73	NS13	7	SCR, #4-40 X 5/16LG. PHMS, SS (316)
72	HG08	1	GASKET, R/F, HD20, LAIRD #4164FW51Y00165
71	IVP1107	1	CHASSIS, INTERNAL COVER, 3860
70	IVPAB006	1	PCBA, BATTERY INTERCONNECT
69	HG01	3.25	GASKET, RFI, .090 'D', 82-122-74019-09600
68	IVP1106P	1	CHASSIS, REAR HOUSING, 3850 SERIES
67	HM25	1	GROMMET, .187 I.D. X .312 O.D., KEYSTONE #534-736
66	PF13	1	FILTER PLATE, 30P, DR, CUSTOM 3000pf
65	IVP1108P	1	CHASSIS, POLE CLAMP TOP, 3850 SERIES
64	IVP1109P	1	CHASSIS, POLE CLAMP BASE, 3850 SERIES
63	IVP1024	2	CLAMP, HANDLE
62	NS22	4	SCR, #6-32 x 3/8LG. PHMS, SS (316)
61	IVP1012		HANDLE

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Rev.	Description	Date
	Revision History	

SEE SHEET 1

unless otherwise noted on dwg.: .XXX = ± .010 .=.= ± 2°

Drawn: JRN Date: 14AUG08
Eng.: RES Date: 06JAN11
Q.A.: FXC Date: 06JAN11
R.A.: FXC Date: 06JAN11
Mfg.: THF Date: 06JAN11

Do NOT scale this drawing !

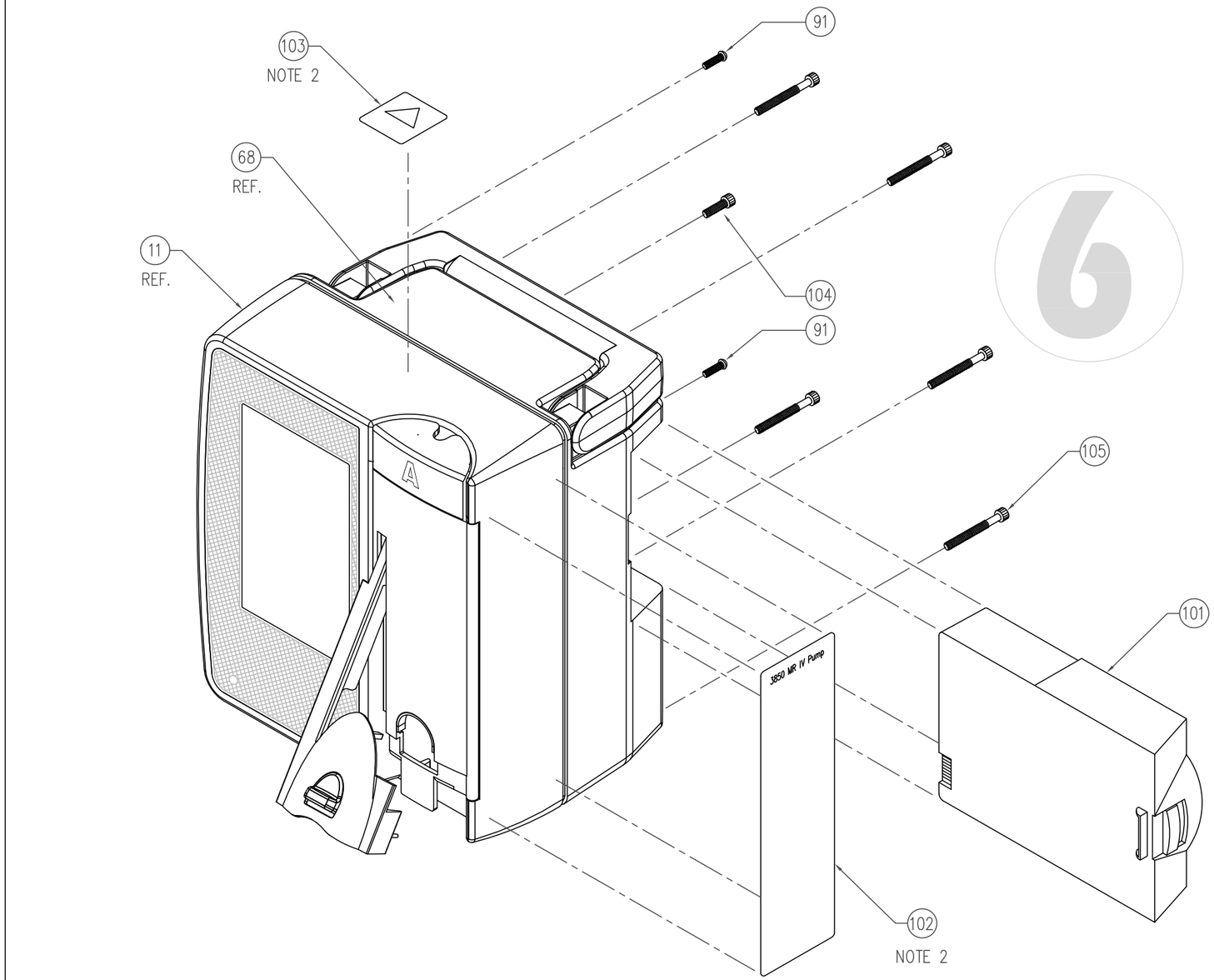
Third Angle Projection

Iradimed Corporation

Title: ASSEMBLY, 3850/3850R MR PUMP, VER. 2.0
Size: D
Part/Dwg. No: AF3850A/3850AR
Rev.: E
Cad. Scale: NA
Sheet 3 of 4

LF21 Rev. A

Figure 5-10. 3850 MR Pump Assembly AF3850A Sheet 3 of 4*



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. ATTACH LABEL (ITEM 102) TO SIDE OF FRONT HOUSING (ITEM 11) CENTERED AS SHOWN.

3. ATTACH LABEL (ITEM 103) TO TOP OF FRONT HOUSING (ITEM 11) CENTERED AS SHOWN AND LOCATED .25 ±.06 FROM SEAM.

AS106 RADIO OPTION

ITEM	PART NO.	QTY.	DESCRIPTION
115	LB2026	1	LABEL, IEC 60417 SYMBOL, .75" X .75"
114	NS21	3	SCREW, #6-32 X 1/4LG. PHMS, XR-SS316
113	IVPAB015	1	PCBA, RADIO MOUNT/ INTERCONNECT
112	AC28	1	CABLE, ANT., RG178, AEROCOMM 1300-00023
111	LB2005	1	LABEL, ANTENNA CONN, 3850
110	HM41	1	DB15F DUST CAP, SOCKET, 538-DA-59-20
109	LB2010	1	LABEL, SIDECAR CONNECTOR
108	HG07	3.75"	GASKET, .02 X .157, FAB/FOAM, PSA
107			
106			
105	NS33	5	#8-32 X 1-1/2LG. SHCS-SS316
104	NS32	3	#8-32 X 1/2LG. SHCS-SS316
103	LB2003	1	LABEL, MRIVP, MR COMPATIBLE SYMBOL
102	LB2002	1	LABEL, MRIVP, ABBREV. OPERATING INST.
101	1133	1	MRI COMPATIBLE BATTERY PACK, 14.8V/5.8A

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Rev.	Description	Date
	SEE SHEET 1	

Revision History

unless otherwise noted on dwg.: .XXX = ± .010, ∠ = ± 2°

Do NOT scale this drawing !

Third Angle Projection

Drawn:	JRN	Date: 14AUG08
Eng.:	RES	Date: 06JAN11
Q.A.:	FXC	Date: 06JAN11
R.A.:	FXC	Date: 06JAN11
Mfg.:	THF	Date: 06JAN11

Iradimed Corporation

Title: ASSEMBLY, 3850/3850R MR PUMP, VER. 2.0

Size: D

Part/Dwg. No: AF3850A/3850AR

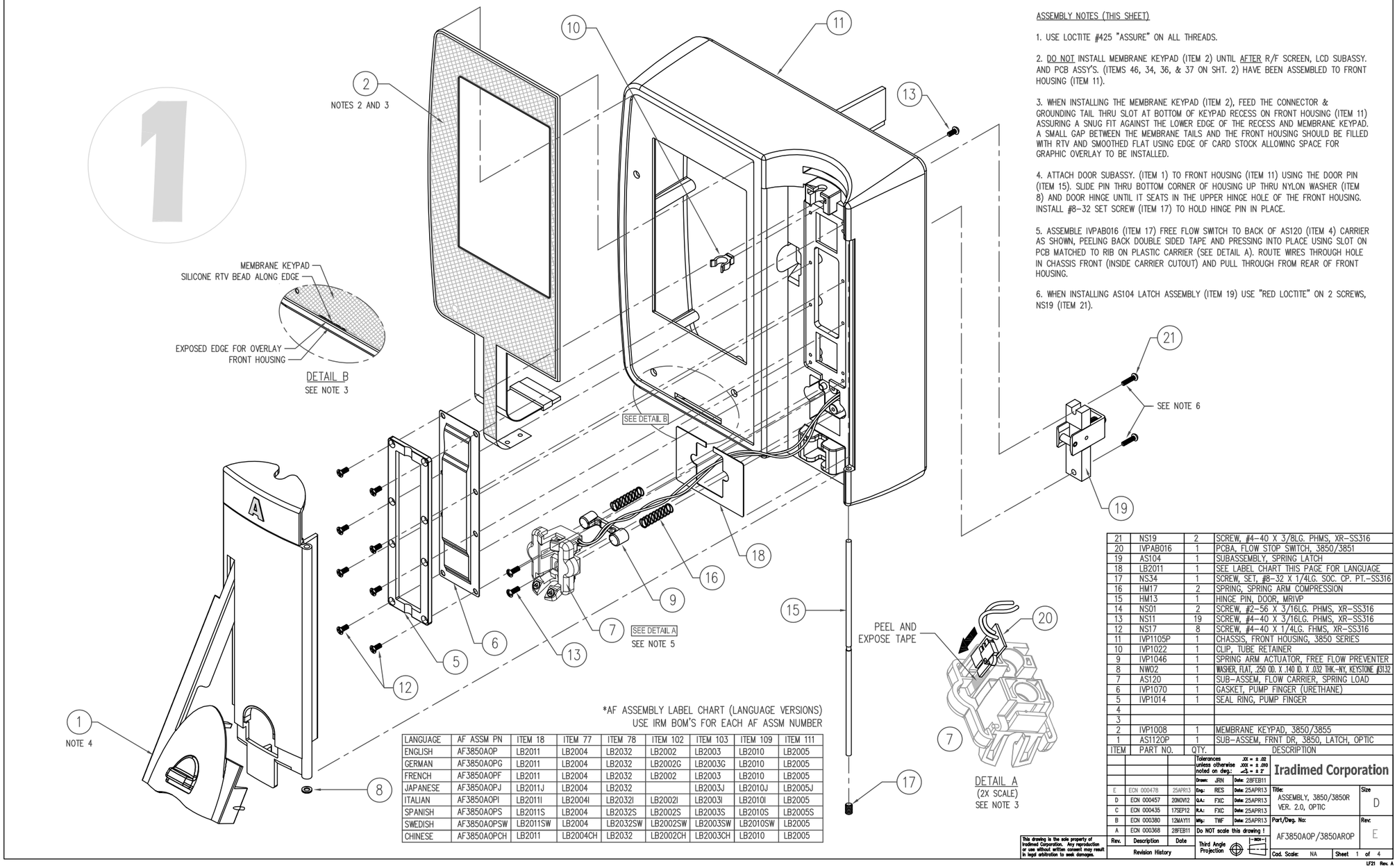
Rev: E

Cad. Scale: NA

Sheet 4 of 4

LF21 Rev. A

Figure 5-11. 3850 MR Pump Assembly AF3850A Sheet 4 of 4*



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. DO NOT INSTALL MEMBRANE KEYPAD (ITEM 2) UNTIL AFTER R/F SCREEN, LCD SUBASSY. AND PCB ASSY'S. (ITEMS 46, 34, 36, & 37 ON SHT. 2) HAVE BEEN ASSEMBLED TO FRONT HOUSING (ITEM 11).

3. WHEN INSTALLING THE MEMBRANE KEYPAD (ITEM 2), FEED THE CONNECTOR & GROUNDING TAIL THRU SLOT AT BOTTOM OF KEYPAD RECESS ON FRONT HOUSING (ITEM 11) ASSURING A SNUG FIT AGAINST THE LOWER EDGE OF THE RECESS AND MEMBRANE KEYPAD. A SMALL GAP BETWEEN THE MEMBRANE TAILS AND THE FRONT HOUSING SHOULD BE FILLED WITH RTV AND SMOOTHED FLAT USING EDGE OF CARD STOCK ALLOWING SPACE FOR GRAPHIC OVERLAY TO BE INSTALLED.

4. ATTACH DOOR SUBASSY. (ITEM 1) TO FRONT HOUSING (ITEM 11) USING THE DOOR PIN (ITEM 15). SLIDE PIN THRU BOTTOM CORNER OF HOUSING UP THRU NYLON WASHER (ITEM 8) AND DOOR HINGE UNTIL IT SEATS IN THE UPPER HINGE HOLE OF THE FRONT HOUSING. INSTALL #8–32 SET SCREW (ITEM 17) TO HOLD HINGE PIN IN PLACE.

5. ASSEMBLE IVPAB016 (ITEM 17) FREE FLOW SWITCH TO BACK OF AS120 (ITEM 4) CARRIER AS SHOWN, PEELING BACK DOUBLE SIDED TAPE AND PRESSING INTO PLACE USING SLOT ON PCB MATCHED TO RIB ON PLASTIC CARRIER (SEE DETAIL A). ROUTE WIRES THROUGH HOLE IN CHASSIS FRONT (INSIDE CARRIER CUTOUT) AND PULL THROUGH FROM REAR OF FRONT HOUSING.

6. WHEN INSTALLING AS104 LATCH ASSEMBLY (ITEM 19) USE "RED LOCTITE" ON 2 SCREWS, NS19 (ITEM 21).

*AF ASSEMBLY LABEL CHART (LANGUAGE VERSIONS)
USE IRM BOM'S FOR EACH AF ASSM NUMBER

LANGUAGE	AF ASSM PN	ITEM 18	ITEM 77	ITEM 78	ITEM 102	ITEM 103	ITEM 109	ITEM 111
ENGLISH	AF3850AOP	LB2011	LB2004	LB2032	LB2002	LB2003	LB2010	LB2005
GERMAN	AF3850AOPG	LB2011	LB2004	LB2032	LB2002G	LB2003G	LB2010	LB2005
FRENCH	AF3850AOPF	LB2011	LB2004	LB2032	LB2002	LB2003	LB2010	LB2005
JAPANESE	AF3850AOPJ	LB2011J	LB2004	LB2032		LB2003J	LB2010J	LB2005J
ITALIAN	AF3850AOPI	LB2011I	LB2004I	LB2032I	LB2002I	LB2003I	LB2010I	LB2005
SPANISH	AF3850AOPS	LB2011S	LB2004	LB2032S	LB2002S	LB2003S	LB2010S	LB2005S
SWEDISH	AF3850AOPSW	LB2011SW	LB2004	LB2032SW	LB2002SW	LB2003SW	LB2010SW	LB2005
CHINESE	AF3850AOPCH	LB2011	LB2004CH	LB2032	LB2002CH	LB2003CH	LB2010	LB2005

ITEM	PART NO.	QTY.	DESCRIPTION
21	NS19	2	SCREW, #4–40 X 3/8LG. PHMS, XR–SS316
20	IVPAB016	1	PCBA, FLOW STOP SWITCH, 3850/3851
19	AS104	1	SUBASSEMBLY, SPRING LATCH
18	LB2011	1	SEE LABEL CHART THIS PAGE FOR LANGUAGE
17	NS34	1	SCREW, SET, #8–32 X 1/4LG. SOC. CP. PT.–SS316
16	HM17	2	SPRING, SPRING ARM COMPRESSION
15	HM13	1	HINGE PIN, DOOR, MRIVP
14	NS01	2	SCREW, #2–56 X 3/16LG. PHMS, XR–SS316
13	NS11	19	SCREW, #4–40 X 3/16LG. PHMS, XR–SS316
12	NS17	8	SCREW, #4–40 X 1/4LG. FHMS, XR–SS316
11	IVP1105P	1	CHASSIS, FRONT HOUSING, 3850 SERIES
10	IVP1022	1	CLIP, TUBE RETAINER
9	IVP1046	1	SPRING ARM ACTUATOR, FREE FLOW PREVENTER
8	NW02	1	WASHER, FLAT, .250 OD. X .140 ID. X .032 THK–NY, KEYSTONE #3132
7	AS120	1	SUB–ASSEM, FLOW CARRIER, SPRING LOAD
6	IVP1070	1	GASKET, PUMP FINGER (URETHANE)
5	IVP1014	1	SEAL RING, PUMP FINGER
4			
3			
2	IVP1008	1	MEMBRANE KEYPAD, 3850/3855
1	AS1120P	1	SUB–ASSEM, FRNT DR, 3850, LATCH, OPTIC

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°
Drawn: JRN Date: 28FEB11
Eng: RES Date: 25APR13
Q.A.: FXC Date: 25APR13
R.A.: FXC Date: 25APR13
Mfg.: TWF Date: 25APR13
Do NOT scale this drawing !
Third Angle Projection

Rev.	Description	Date
E	ECN 000478	25APR13
D	ECN 000457	20NOV12
C	ECN 000435	17SEP12
B	ECN 000380	12MAY11
A	ECN 000368	28FEB11

Revision History

Iradimed Corporation

Title: ASSEMBLY, 3850/3850R VER. 2.0, OPTIC
Size: D
Part/Dwg. No: AF3850AOP/3850AROP
Rev: E
Cad. Scale: NA
Sheet 1 of 4

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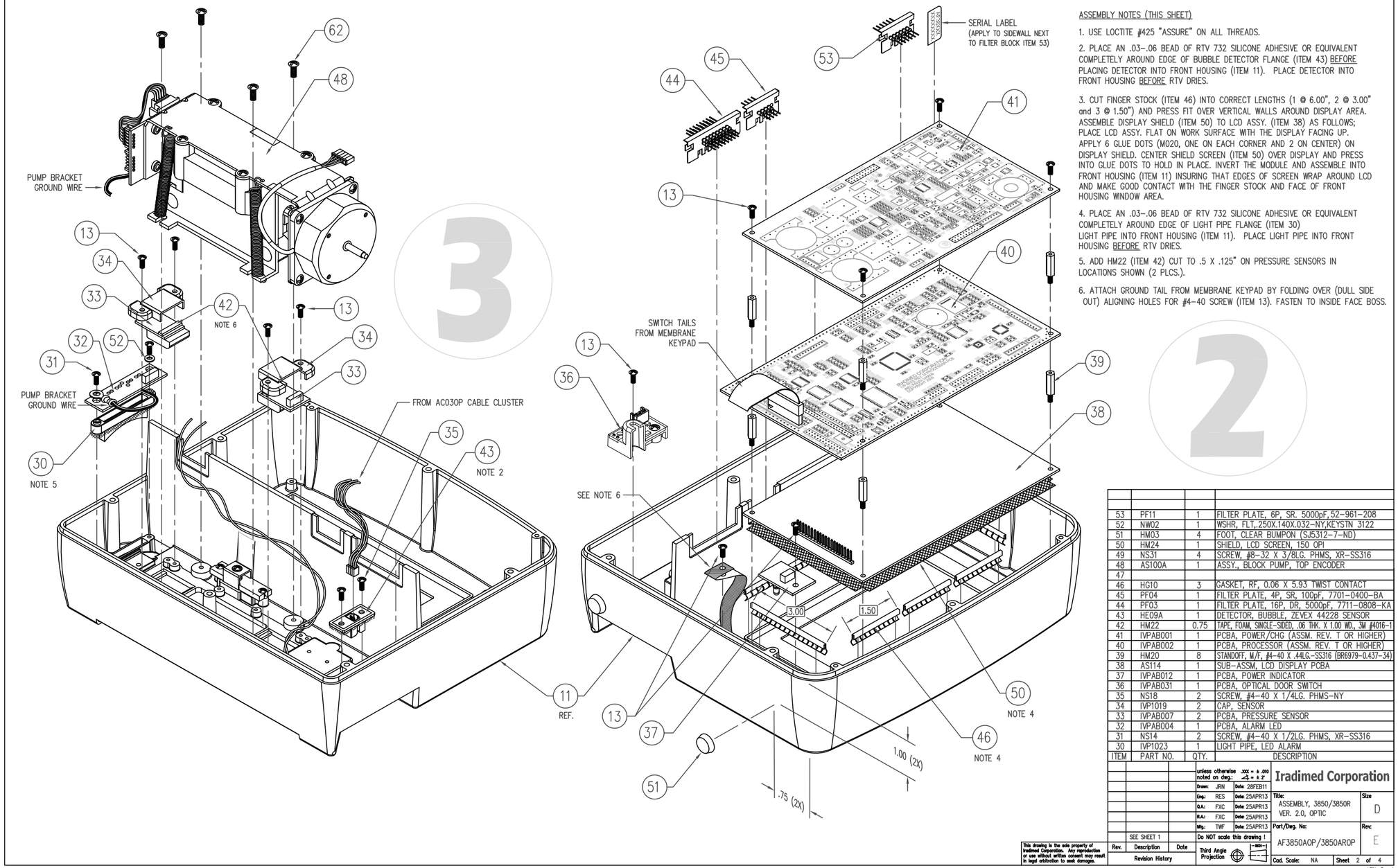
LF21 Rev. A

Figure 5-12. 3850 MR Pump Assembly AF3850AOP Sheet 1 of 4**



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. PLACE AN .03–.06 BEAD OF RTV 732 SILICONE ADHESIVE OR EQUIVALENT COMPLETELY AROUND EDGE OF BUBBLE DETECTOR FLANGE (ITEM 43) BEFORE PLACING DETECTOR INTO FRONT HOUSING (ITEM 11). PLACE DETECTOR INTO FRONT HOUSING BEFORE RTV DRIES.

3. CUT FINGER STOCK (ITEM 46) INTO CORRECT LENGTHS (1 @ 6.00", 2 @ 3.00" and 3 @ 1.50") AND PRESS FIT OVER VERTICAL WALLS AROUND DISPLAY AREA. ASSEMBLE DISPLAY SHIELD (ITEM 50) TO LCD ASSY. (ITEM 38) AS FOLLOWS; PLACE LCD ASSY. FLAT ON WORK SURFACE WITH THE DISPLAY FACING UP. APPLY 6 GLUE DOTS (M020, ONE ON EACH CORNER AND 2 ON CENTER) ON DISPLAY SHIELD. CENTER SHIELD SCREEN (ITEM 50) OVER DISPLAY AND PRESS INTO GLUE DOTS TO HOLD IN PLACE. INVERT THE MODULE AND ASSEMBLE INTO FRONT HOUSING (ITEM 11) INSURING THAT EDGES OF SCREEN WRAP AROUND LCD AND MAKE GOOD CONTACT WITH THE FINGER STOCK AND FACE OF FRONT HOUSING WINDOW AREA.

4. PLACE AN .03–.06 BEAD OF RTV 732 SILICONE ADHESIVE OR EQUIVALENT COMPLETELY AROUND EDGE OF LIGHT PIPE FLANGE (ITEM 30) LIGHT PIPE INTO FRONT HOUSING (ITEM 11). PLACE LIGHT PIPE INTO FRONT HOUSING BEFORE RTV DRIES.

5. ADD HM22 (ITEM 42) CUT TO .5 X .125" ON PRESSURE SENSORS IN LOCATIONS SHOWN (2 PLCS.).

6. ATTACH GROUND TAIL FROM MEMBRANE KEYPAD BY FOLDING OVER (DULL SIDE OUT) ALIGNING HOLES FOR #4–40 SCREW (ITEM 13). FASTEN TO INSIDE FACE BOSS.

ITEM	PART NO.	QTY.	DESCRIPTION
53	PF11	1	FILTER PLATE, 6P, SR. 5000pF, 52–961–208
52	NW02	1	WSHR, FLT,.250X.140X.032–NY,KEYSTN 3122
51	HM03	4	FOOT, CLEAR BUMPON (SJ5312–7–ND)
50	HM24	1	SHIELD, LCD SCREEN, 150 OPI
49	NS31	4	SCREW, #8–32 X 3/8LG. PHMS, XR–SS316
48	AS100A	1	ASSY., BLOCK PUMP, TOP ENCODER
47			
46	HG10	3	GASKET, RF, 0.06 X 5.93 TWIST CONTACT
45	PF04	1	FILTER PLATE, 4P, SR, 100pF, 7701–0400–BA
44	PF03	1	FILTER PLATE, 16P, DR, 5000pF, 7711–0808–KA
43	HE09A	1	DETECTOR, BUBBLE, ZEVEX 44228 SENSOR
42	HM22	0.75	TAPE, FOAM, SINGLE–SIDED, .06 THK. X 1.00 WD., 3M #4016–1
41	IVPAB001	1	PCBA, POWER/CHG (ASSM. REV. T OR HIGHER)
40	IVPAB002	1	PCBA, PROCESSOR (ASSM. REV. T OR HIGHER)
39	HM20	8	STANDOFF, M/F, #4–40 X .44LG.–SS316 (BR6979–0.437–34)
38	AS114	1	SUB–ASSM, LCD DISPLAY PCBA
37	IVPAB012	1	PCBA, POWER INDICATOR
36	IVPAB031	1	PCBA, OPTICAL DOOR SWITCH
35	NS18	2	SCREW, #4–40 X 1/4LG. PHMS–NY
34	IVP1019	2	CAP, SENSOR
33	IVPAB007	2	PCBA, PRESSURE SENSOR
32	IVPAB004	1	PCBA, ALARM LED
31	NS14	2	SCREW, #4–40 X 1/2LG. PHMS, XR–SS316
30	IVP1023	1	LIGHT PIPE, LED ALARM

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Rev. | Description | Date — Revision History

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Drawn: JRN Date: 28FEB11
Eng.: RES Date: 25APR13
Q.A.: FXC Date: 25APR13
R.A.: FXC Date: 25APR13
Mfg.: TWF Date: 25APR13

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: ASSEMBLY, 3850/3850R VER. 2.0, OPTIC

Size: D

Part/Dwg. No: AF3850AOP/3850AROP

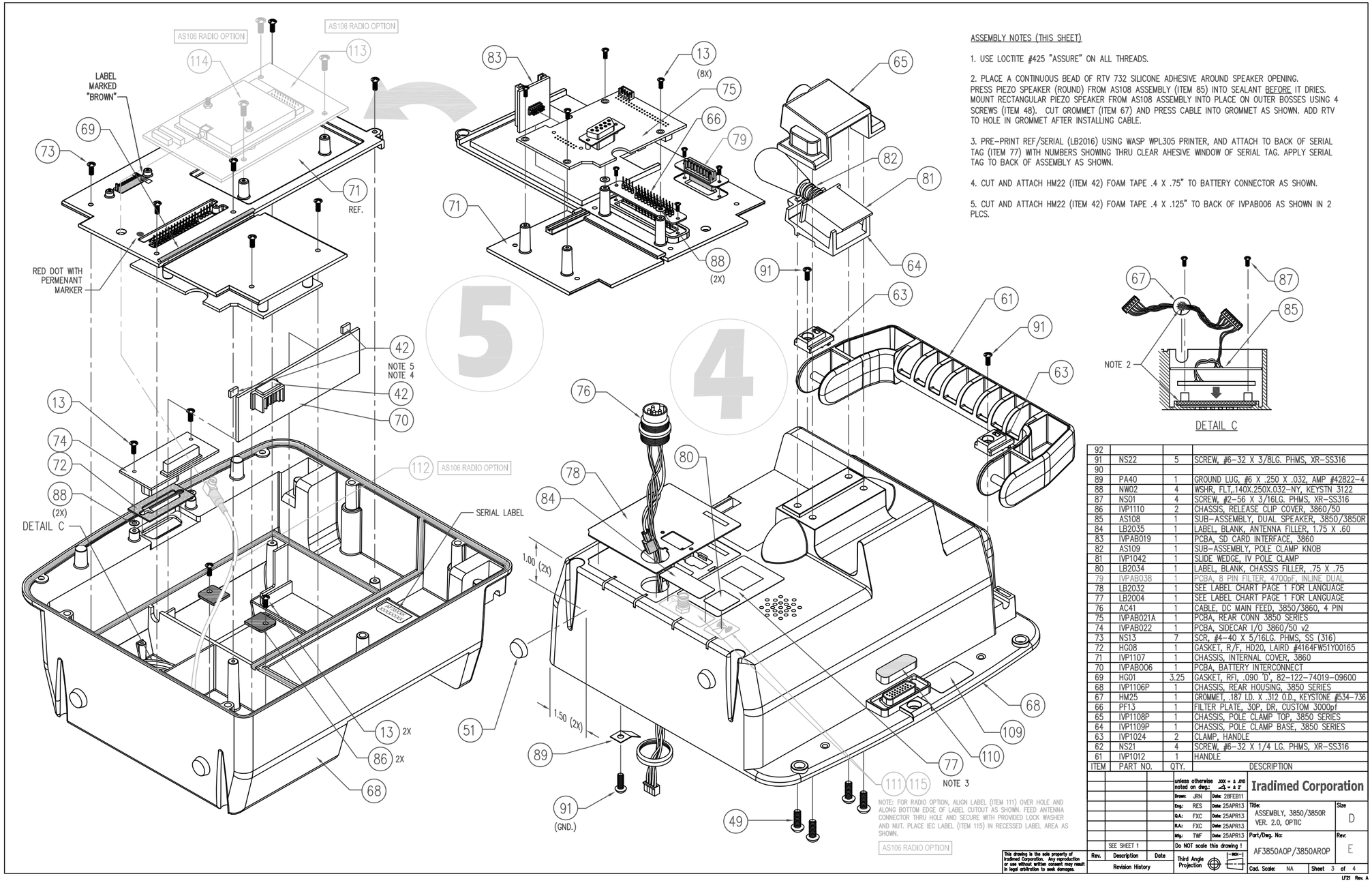
Rev: E

Cad. Scale: NA

Sheet 2 of 4

LF21 Rev. A

Figure 5-13. 3850 MR Pump Assembly AF3850AOP Sheet 2 of 4**


AS106 RADIO OPTION
AS106 RADIO OPTION
114
113
LABEL MARKED "BROWN"
69
73
71 REF.
RED DOT WITH PERMENANT MARKER
42
NOTE 5
NOTE 4
42
70
13
74
72
88 (2X)
DETAIL C
112 AS106 RADIO OPTION
SERIAL LABEL
13 2X
86 2X
68
5
83
13 (8X)
75
66
79
71
88 (2X)
4
76
78
84
80
1.00 (2X)
1.50 (2X)
51
89
91 (GND.)
49
65
82
81
64
91
63
61
91
63
68
109
110
77
111
115
NOTE 3
NOTE: FOR RADIO OPTION, ALIGN LABEL (ITEM 111) OVER HOLE AND ALONG BOTTOM EDGE OF LABEL CUTOUT AS SHOWN. FEED ANTENNA CONNECTOR THRU HOLE AND SECURE WITH PROVIDED LOCK WASHER AND NUT. PLACE IEC LABEL (ITEM 115) IN RECESSED LABEL AREA AS SHOWN.
AS106 RADIO OPTION
67
87
85
NOTE 2
DETAIL C
ASSEMBLY NOTES (THIS SHEET)
1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.
2. PLACE A CONTINUOUS BEAD OF RTV 732 SILICONE ADHESIVE AROUND SPEAKER OPENING. PRESS PIEZO SPEAKER (ROUND) FROM AS108 ASSEMBLY (ITEM 85) INTO SEALANT BEFORE IT DRIES. MOUNT RECTANGULAR PIEZO SPEAKER FROM AS108 ASSEMBLY INTO PLACE ON OUTER BOSSES USING 4 SCREWS (ITEM 48). CUT GROMMET (ITEM 67) AND PRESS CABLE INTO GROMMET AS SHOWN. ADD RTV TO HOLE IN GROMMET AFTER INSTALLING CABLE.
3. PRE-PRINT REF/SERIAL (LB2016) USING WASP WPL305 PRINTER, AND ATTACH TO BACK OF SERIAL TAG (ITEM 77) WITH NUMBERS SHOWING THRU CLEAR AHESIVE WINDOW OF SERIAL TAG. APPLY SERIAL TAG TO BACK OF ASSEMBLY AS SHOWN.
4. CUT AND ATTACH HM22 (ITEM 42) FOAM TAPE .4 X .75" TO BATTERY CONNECTOR AS SHOWN.
5. CUT AND ATTACH HM22 (ITEM 42) FOAM TAPE .4 X .125" TO BACK OF IVPAB006 AS SHOWN IN 2 PLCS.
92
91 NS22 5 SCREW, #6-32 X 3/8LG. PHMS, XR-SS316
90
89 PA40 1 GROUND LUG, #6 X .250 X .032, AMP #42822-4
88 NW02 4 WSHR, FLT,.140X.250X.032-NY, KEYSTN 3122
87 NS01 4 SCREW, #2-56 X 3/16LG. PHMS, XR-SS316
86 IVP1110 2 CHASSIS, RELEASE CLIP COVER, 3860/50
85 AS108 1 SUB-ASSEMBLY, DUAL SPEAKER, 3850/3850R
84 LB2035 1 LABEL, BLANK, ANTENNA FILLER, 1.75 X .60
83 IVPAB019 1 PCBA, SD CARD INTERFACE, 3860
82 AS109 1 SUB-ASSEMBLY, POLE CLAMP KNOB
81 IVP1042 1 SLIDE WEDGE, IV POLE CLAMP
80 LB2034 1 LABEL, BLANK, CHASSIS FILLER, .75 X .75
79 IVPAB038 1 PCBA, 8 PIN FILTER, 4700pF, INLINE DUAL
78 LB2032 1 SEE LABEL CHART PAGE 1 FOR LANGUAGE
77 LB2004 1 SEE LABEL CHART PAGE 1 FOR LANGUAGE
76 AC41 1 CABLE, DC MAIN FEED, 3850/3860, 4 PIN
75 IVPAB021A 1 PCBA, REAR CONN 3850 SERIES
74 IVPAB022 1 PCBA, SIDECAR I/O 3860/50 v2
73 NS13 7 SCR, #4-40 X 5/16LG. PHMS, SS (316)
72 HG08 1 GASKET, R/F, HD20, LAIRD #4164FW51Y00165
71 IVP1107 1 CHASSIS, INTERNAL COVER, 3860
70 IVPAB006 1 PCBA, BATTERY INTERCONNECT
69 HG01 3.25 GASKET, RFI, .090 'D', 82-122-74019-09600
68 IVP1106P 1 CHASSIS, REAR HOUSING, 3850 SERIES
67 HM25 1 GROMMET, .187 I.D. X .312 O.D., KEYSTONE #534-736
66 PF13 1 FILTER PLATE, 30P, DR, CUSTOM 3000pf
65 IVP1108P 1 CHASSIS, POLE CLAMP TOP, 3850 SERIES
64 IVP1109P 1 CHASSIS, POLE CLAMP BASE, 3850 SERIES
63 IVP1024 2 CLAMP, HANDLE
62 NS21 4 SCREW, #6-32 X 1/4 LG. PHMS, XR-SS316
61 IVP1012 1 HANDLE
ITEM PART NO. QTY. DESCRIPTION
unless otherwise noted on dwg.: XXX = ± .010 .X = ± .2
Drawn: JRN Date: 28FEB11
Eng.: RES Date: 25APR13
Q.A.: FXC Date: 25APR13
R.A.: FXC Date: 25APR13
Mfg.: TMF Date: 25APR13
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Iradimed Corporation
Title: ASSEMBLY, 3850/3850R VER. 2.0, OPTIC
Size D
Part/Dwg. No: AF3850AOP/3850AROP
Rev. E
Cad. Scale: NA
Sheet 3 of 4
SEE SHEET 1
Rev. Description Date
Revision History
Third Angle Projection
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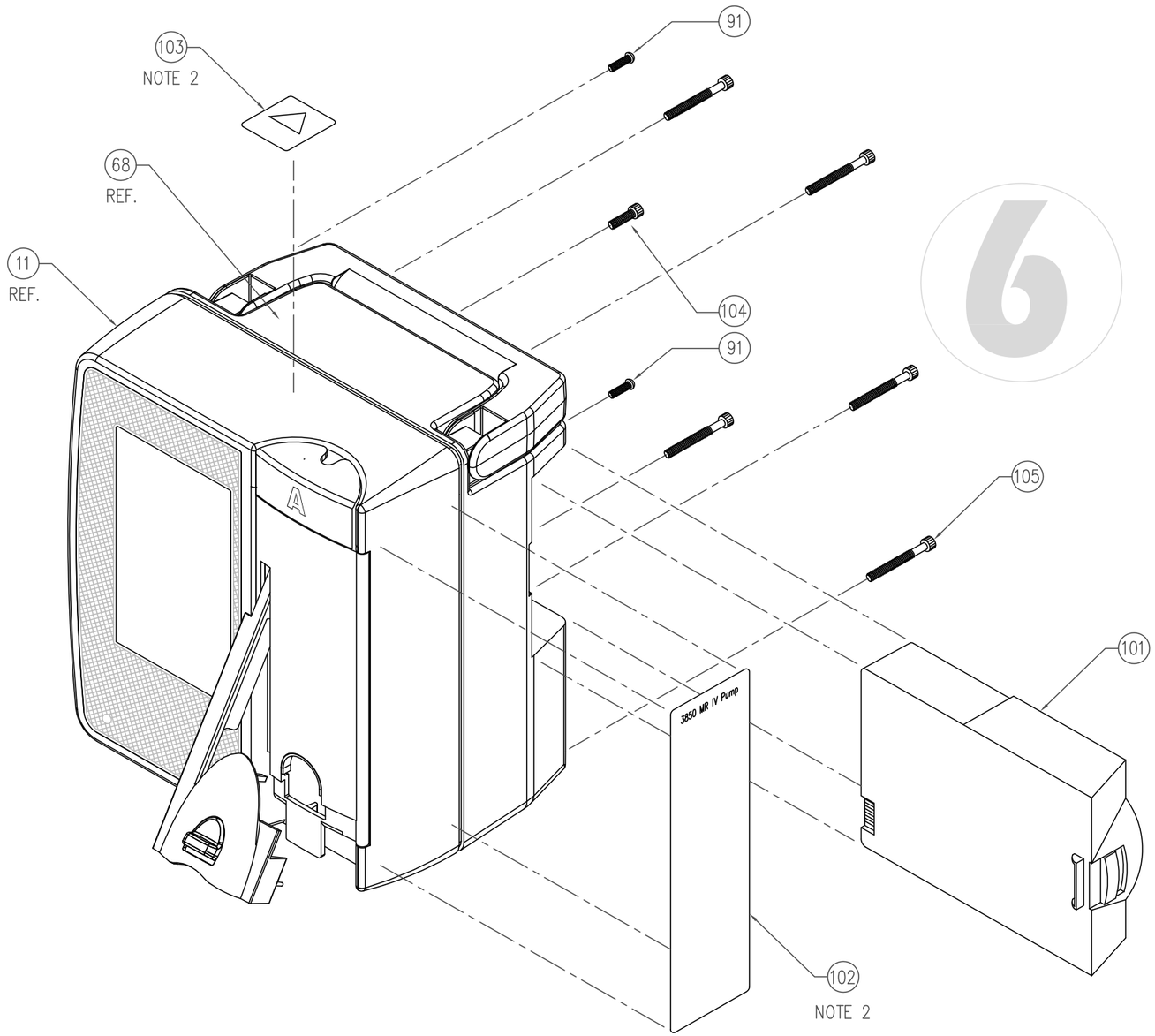
LF21 Rev. A

Figure 5-14. 3850 MR Pump Assembly AF3850AOP Sheet 3 of 4**



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. ATTACH LABEL (ITEM 102) TO SIDE OF FRONT HOUSING (ITEM 11) CENTERED AS SHOWN.

3. ATTACH LABEL (ITEM 103) TO TOP OF FRONT HOUSING (ITEM 11) CENTERED AS SHOWN AND LOCATED .25 ±.06 FROM SEAM.

BATTERY CHART (LANGUAGE VERSIONS)
USE IRM BOM'S FOR EACH AF ASSM NUMBER

LANGUAGE	AF ASSM PN	ITEM 101 BATTERY
ENGLISH	AF3850AOP	1133
GERMAN	AF3850AOPG	1133
FRENCH	AF3850AOPF	1133
JAPANESE	AF3850AOPJ	1133J
ITALIAN	AF3850AOPI	1133I
SPANISH	AF3850AOPS	1133S
SWEDISH	AF3850AOPSW	1133SW
CHINESE	AF3850AOPCH	1133

AS106 RADIO OPTION

115	LB2026	1	LABEL, IEC 60417 SYMBOL, .75" X .75"
114	NS21	3	SCREW, #6-32 X 1/4LG. PHMS, XR-SS316
113	IVPAB015	1	PCBA, RADIO MOUNT/ INTERCONNECT
112	AC28	1	CABLE, ANT., RG178, AEROCOMM 1300-00023
111	LB2005	1	SEE LABEL CHART, PAGE 1 FOR LANGUAGE

ITEM	PART NO.	QTY.	DESCRIPTION
110	HM41	1	DB15F DUST CAP, SOCKET, 538-DA-59-20
109	LB2010	1	SEE LABEL CHART, PAGE 1 FOR LANGUAGE
108	HG07	3.75"	GASKET, .02 X .157, FAB/FOAM, PSA
107			
106			
105	NS33	5	#8-32 X 1-1/2LG. SHCS-SS316
104	NS32	3	#8-32 X 1/2LG. SHCS-SS316
103	LB2003	1	SEE LABEL CHART, PAGE 1 FOR LANGUAGE
102	LB2002	1	SEE LABEL CHART, PAGE 1 FOR LANGUAGE
101	1133	1	SEE BATTERY CHART THIS PAGE FOR LANGUAGE

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Drawn: JRN Date: 28FEB11
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Mfg.: TWF Date: 25APR13

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Third Angle Projection

Title: ASSEMBLY, 3850/3850R VER. 2.0, OPTIC
Size: D
Part/Dwg. No: AF3850AOP/3850AROP
Rev.: E
Cad. Scale: NA
Sheet 4 of 4

Rev.	Description	Date
SEE SHEET 1		

Revision History

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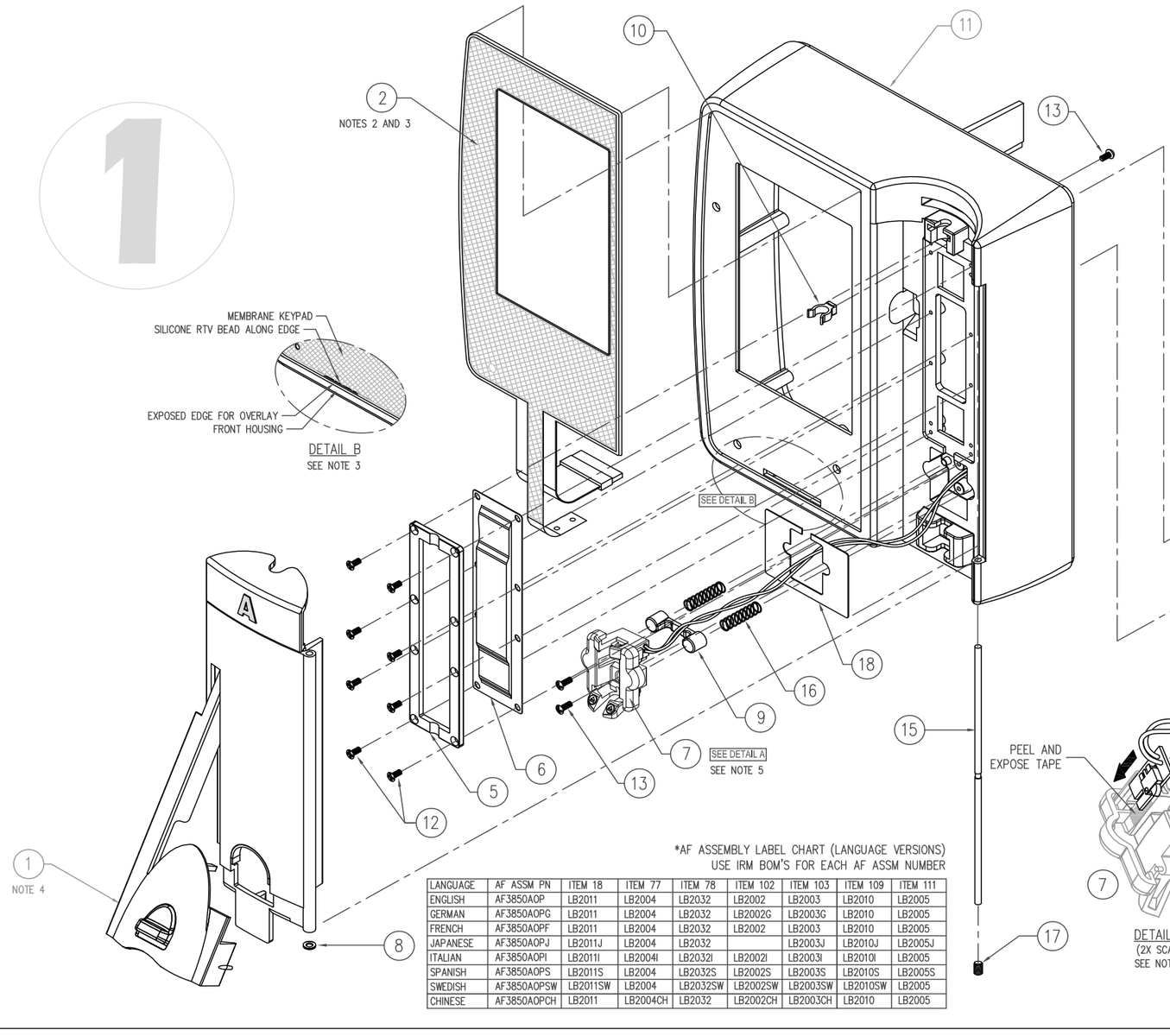
Figure 5-15. 3850 MR Pump Assembly AF3850AOP Sheet 4 of 4**



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. DO NOT INSTALL MEMBRANE KEYPAD (ITEM 2) UNTIL AFTER R/F SCREEN, LCD SUBASSY. AND PCB ASSY'S. (ITEMS 46, 34, 36, & 37 ON SHT. 2) HAVE BEEN ASSEMBLED TO FRONT HOUSING (ITEM 11).

3. WHEN INSTALLING THE MEMBRANE KEYPAD (ITEM 2), FEED THE CONNECTOR & GROUNDING TAIL THRU SLOT AT BOTTOM OF KEYPAD RECESS ON FRONT HOUSING (ITEM 11) ASSURING A SNUG FIT AGAINST THE LOWER EDGE OF THE RECESS AND MEMBRANE KEYPAD. A SMALL GAP BETWEEN THE MEMBRANE TAILS AND THE FRONT HOUSING SHOULD BE FILLED WITH RTV AND SMOOTHED FLAT USING EDGE OF CARD STOCK ALLOWING SPACE FOR GRAPHIC OVERLAY TO BE INSTALLED.

4. ATTACH DOOR SUBASSY. (ITEM 1) TO FRONT HOUSING (ITEM 11) USING THE DOOR PIN (ITEM 15). SLIDE PIN THRU BOTTOM CORNER OF HOUSING UP THRU NYLON WASHER (ITEM 8) AND DOOR HINGE UNTIL IT SEATS IN THE UPPER HINGE HOLE OF THE FRONT HOUSING. INSTALL #8-32 SET SCREW (ITEM 17) TO HOLD HINGE PIN IN PLACE.

5. ASSEMBLE IVPAB016 (ITEM 17) FREE FLOW SWITCH TO BACK OF AS120 (ITEM 4) CARRIER AS SHOWN, PEELING BACK DOUBLE SIDED TAPE AND PRESSING INTO PLACE USING SLOT ON PCB MATCHED TO RIB ON PLASTIC CARRIER (SEE DETAIL A). ROUTE WIRES THROUGH HOLE IN CHASSIS FRONT (INSIDE CARRIER CUTOUT) AND PULL THROUGH FROM REAR OF FRONT HOUSING.

6. WHEN INSTALLING AS104 LATCH ASSEMBLY (ITEM 19) USE "RED LOCTITE" ON 2 SCREWS, NS19 (ITEM 21).

*AF ASSEMBLY LABEL CHART (LANGUAGE VERSIONS)
USE IRM BOM'S FOR EACH AF ASSM NUMBER

LANGUAGE	AF ASSM PN	ITEM 18	ITEM 77	ITEM 78	ITEM 102	ITEM 103	ITEM 109	ITEM 111
ENGLISH	AF3850AOP	LB2011	LB2004	LB2032	LB2002	LB2003	LB2010	LB2005
GERMAN	AF3850AOPG	LB2011	LB2004	LB2032	LB2002G	LB2003G	LB2010	LB2005
FRENCH	AF3850AOPF	LB2011	LB2004	LB2032	LB2002	LB2003	LB2010	LB2005
JAPANESE	AF3850AOPJ	LB2011J	LB2004	LB2032		LB2003J	LB2010J	LB2005J
ITALIAN	AF3850AOPI	LB2011I	LB2004I	LB2032I	LB2002I	LB2003I	LB2010I	LB2005
SPANISH	AF3850AOPS	LB2011S	LB2004	LB2032S	LB2002S	LB2003S	LB2010S	LB2005S
SWEDISH	AF3850AOPSW	LB2011SW	LB2004	LB2032SW	LB2002SW	LB2003SW	LB2010SW	LB2005
CHINESE	AF3850AOPCH	LB2011	LB2004CH	LB2032	LB2002CH	LB2003CH	LB2010	LB2005

ITEM	PART NO.	QTY.	DESCRIPTION
21	NS19	2	SCREW, #4-40 X 3/8LG. PHMS, XR-SS316
20	IVPAB016	1	PCBA, FLOW STOP SWITCH, 3850/3851
19	AS104	1	SUBASSEMBLY, SPRING LATCH
18	LB2011	1	SEE LABEL CHART THIS PAGE FOR LANGUAGE
17	NS34	1	SCREW, SET, #8-32 X 1/4LG. SOC. CP. PT.-SS316
16	HM17	2	SPRING, SPRING ARM COMPRESSION
15	HM13	1	HINGE PIN, DOOR, MRIVP
14	NS01	2	SCREW, #2-56 X 3/16LG. PHMS, XR-SS316
13	NS11	19	SCREW, #4-40 X 3/16LG. PHMS, XR-SS316
12	NS17	8	SCREW, #4-40 X 1/4LG. FHMS, XR-SS316
11	IVP1105	1	CHASSIS, FRONT HOUSING, 3850/3860 SERIES
10	IVP1022	1	CLIP, TUBE RETAINER
9	IVP1046	1	SPRING ARM ACTUATOR, FREE FLOW PREVENTER
8	NW02	1	WASHER, FLAT, .250 OD. X .140 ID. X .032 THK.-NY, KEYSTONE #3132
7	AS120	1	SUB-ASSEM, FLOW CARRIER, SPRING LOAD
6	IVP1070	1	GASKET, PUMP FINGER (URETHANE)
5	IVP1014	1	SEAL RING, PUMP FINGER
4			
3			
2	IVP1008	1	MEMBRANE KEYPAD, 3850/3855
1	AS112AOP	1	SUB-ASSEM, FRNT DR, 3850/60, LTCH, OPTIC

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Rev.	Description	Date
F	ECN 000488	18JUN13
E	ECN 000478	25APR13
D	ECN 000457	20NOV12
C	ECN 000435	17SEP12
B	ECN 000380	12MAY11
A	ECN 000368	28FEB11

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Third Angle Projection

Iradimed Corporation

Title: ASSEMBLY, 3850/3850R VER. 2.0, OPTIC
Size: D
Part/Dwg. No: AF3850AOP/3850AROP
Rev: F
Cad. Scale: NA
Sheet 1 of 4

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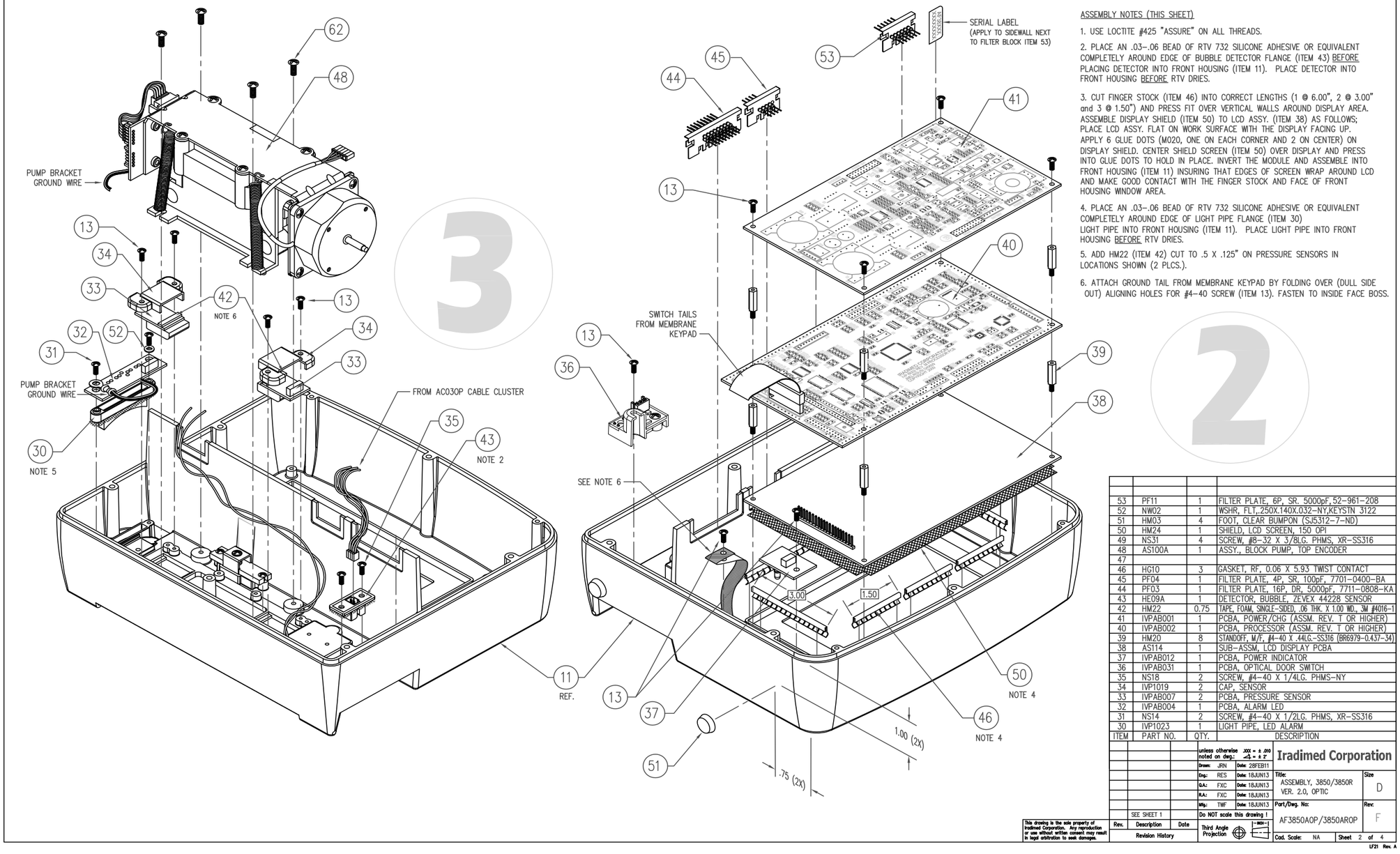
Figure 5-16. 3850 MR Pump Assembly AF3850AOP Sheet 1 of 4***



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. PLACE AN .03–.06 BEAD OF RTV 732 SILICONE ADHESIVE OR EQUIVALENT COMPLETELY AROUND EDGE OF BUBBLE DETECTOR FLANGE (ITEM 43) BEFORE PLACING DETECTOR INTO FRONT HOUSING (ITEM 11). PLACE DETECTOR INTO FRONT HOUSING BEFORE RTV DRIES.

3. CUT FINGER STOCK (ITEM 46) INTO CORRECT LENGTHS (1 @ 6.00", 2 @ 3.00" and 3 @ 1.50") AND PRESS FIT OVER VERTICAL WALLS AROUND DISPLAY AREA. ASSEMBLE DISPLAY SHIELD (ITEM 50) TO LCD ASSY. (ITEM 38) AS FOLLOWS; PLACE LCD ASSY. FLAT ON WORK SURFACE WITH THE DISPLAY FACING UP. APPLY 6 GLUE DOTS (M020, ONE ON EACH CORNER AND 2 ON CENTER) ON DISPLAY SHIELD. CENTER SHIELD SCREEN (ITEM 50) OVER DISPLAY AND PRESS INTO GLUE DOTS TO HOLD IN PLACE. INVERT THE MODULE AND ASSEMBLE INTO FRONT HOUSING (ITEM 11) INSURING THAT EDGES OF SCREEN WRAP AROUND LCD AND MAKE GOOD CONTACT WITH THE FINGER STOCK AND FACE OF FRONT HOUSING WINDOW AREA.

4. PLACE AN .03–.06 BEAD OF RTV 732 SILICONE ADHESIVE OR EQUIVALENT COMPLETELY AROUND EDGE OF LIGHT PIPE FLANGE (ITEM 30) LIGHT PIPE INTO FRONT HOUSING (ITEM 11). PLACE LIGHT PIPE INTO FRONT HOUSING BEFORE RTV DRIES.

5. ADD HM22 (ITEM 42) CUT TO .5 X .125" ON PRESSURE SENSORS IN LOCATIONS SHOWN (2 PLCS.).

6. ATTACH GROUND TAIL FROM MEMBRANE KEYPAD BY FOLDING OVER (DULL SIDE OUT) ALIGNING HOLES FOR #4–40 SCREW (ITEM 13). FASTEN TO INSIDE FACE BOSS.

ITEM	PART NO.	QTY.	DESCRIPTION
53	PF11	1	FILTER PLATE, 6P, SR. 5000pF,52–961–208
52	NW02	1	WSHR, FLT,.250X.140X.032–NY,KEYSTN 3122
51	HM03	4	FOOT, CLEAR BUMPON (SJ5312–7–ND)
50	HM24	1	SHIELD, LCD SCREEN, 150 OPI
49	NS31	4	SCREW, #8–32 X 3/8LG. PHMS, XR–SS316
48	AS100A	1	ASSY., BLOCK PUMP, TOP ENCODER
47			
46	HG10	3	GASKET, RF, 0.06 X 5.93 TWIST CONTACT
45	PF04	1	FILTER PLATE, 4P, SR, 100pF, 7701–0400–BA
44	PF03	1	FILTER PLATE, 16P, DR, 5000pF, 7711–0808–KA
43	HE09A	1	DETECTOR, BUBBLE, ZEVEX 44228 SENSOR
42	HM22	0.75	TAPE, FOAM, SINGLE–SIDED, .06 THK. X 1.00 WD., 3M #4016–1
41	IVPAB001	1	PCBA, POWER/CHG (ASSM. REV. T OR HIGHER)
40	IVPAB002	1	PCBA, PROCESSOR (ASSM. REV. T OR HIGHER)
39	HM20	8	STANDOFF, M/F, #4–40 X .44LG.–SS316 (BR6979–0.437–34)
38	AS114	1	SUB–ASSM, LCD DISPLAY PCBA
37	IVPAB012	1	PCBA, POWER INDICATOR
36	IVPAB031	1	PCBA, OPTICAL DOOR SWITCH
35	NS18	2	SCREW, #4–40 X 1/4LG. PHMS–NY
34	IVP1019	2	CAP, SENSOR
33	IVPAB007	2	PCBA, PRESSURE SENSOR
32	IVPAB004	1	PCBA, ALARM LED
31	NS14	2	SCREW, #4–40 X 1/2LG. PHMS, XR–SS316
30	IVP1023	1	LIGHT PIPE, LED ALARM

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Rev.	Description	Date
	Revision History	

unless otherwise noted on dwg.: .XXX = ± .010, ∠ = ± 1°

Iradimed Corporation

Drawn:	JRN	Date: 28FEB11
Eng.:	RES	Date: 18JUN13
Q.A.:	FXC	Date: 18JUN13
R.A.:	FXC	Date: 18JUN13
Mfg.:	TWF	Date: 18JUN13

Title: ASSEMBLY, 3850/3850R VER. 2.0, OPTIC

Size: D

Part/Dwg. No: AF3850AOP/3850AROP

Rev: F

SEE SHEET 1

Do NOT scale this drawing !

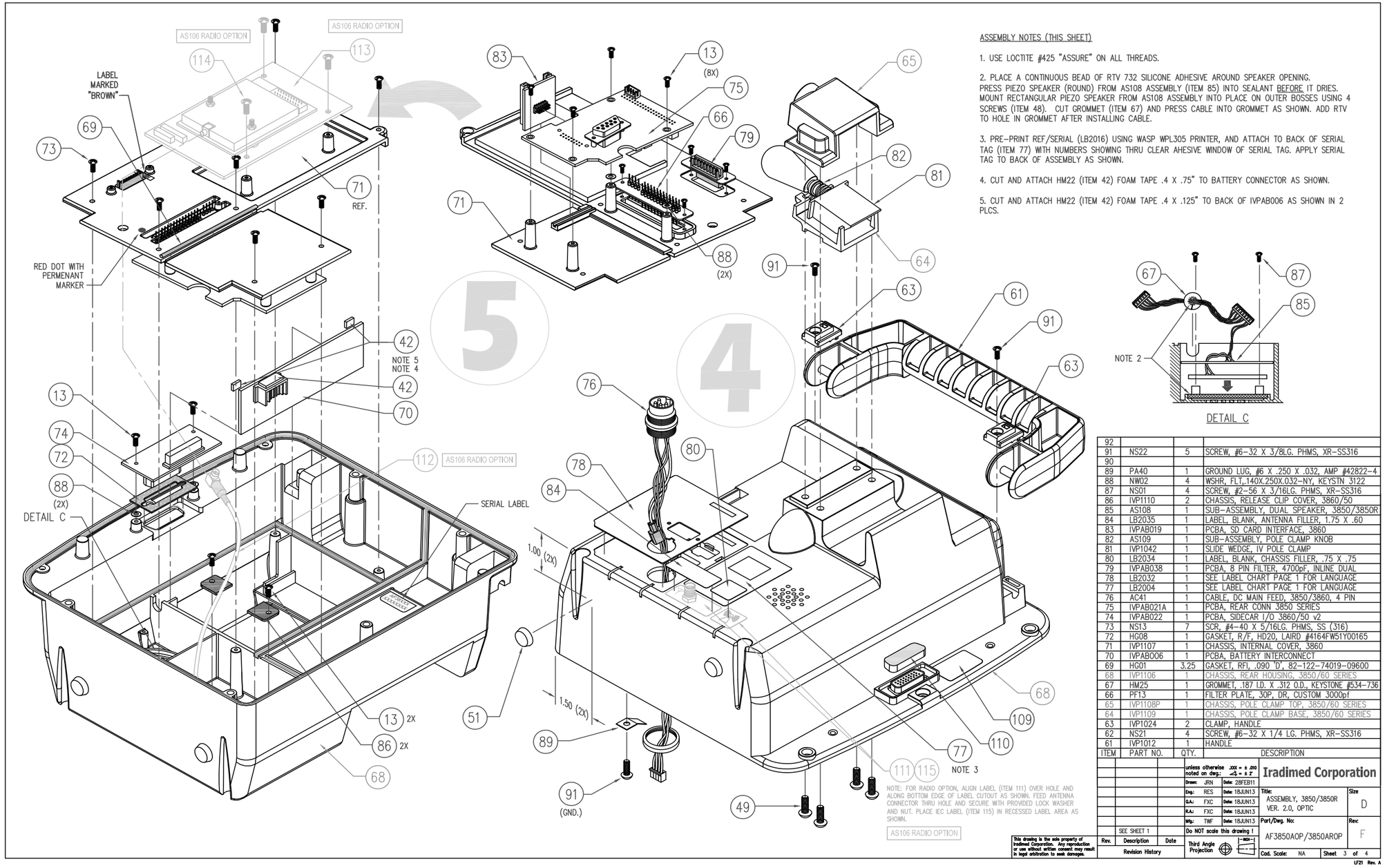
Third Angle Projection

Cad. Scale: NA

Sheet 2 of 4

LF21 Rev. A

Figure 5-17. 3850 MR Pump Assembly AF3850AOP Sheet 2 of 4***



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. PLACE A CONTINUOUS BEAD OF RTV 732 SILICONE ADHESIVE AROUND SPEAKER OPENING. PRESS PIEZO SPEAKER (ROUND) FROM AS108 ASSEMBLY (ITEM 85) INTO SEALANT BEFORE IT DRIES. MOUNT RECTANGULAR PIEZO SPEAKER FROM AS108 ASSEMBLY INTO PLACE ON OUTER BOSSES USING 4 SCREWS (ITEM 48). CUT GROMMET (ITEM 67) AND PRESS CABLE INTO GROMMET AS SHOWN. ADD RTV TO HOLE IN GROMMET AFTER INSTALLING CABLE.

3. PRE-PRINT REF/SERIAL (LB2016) USING WASP WPL305 PRINTER, AND ATTACH TO BACK OF SERIAL TAG (ITEM 77) WITH NUMBERS SHOWING THRU CLEAR AHESIVE WINDOW OF SERIAL TAG. APPLY SERIAL TAG TO BACK OF ASSEMBLY AS SHOWN.

4. CUT AND ATTACH HM22 (ITEM 42) FOAM TAPE .4 X .75" TO BATTERY CONNECTOR AS SHOWN.

5. CUT AND ATTACH HM22 (ITEM 42) FOAM TAPE .4 X .125" TO BACK OF IVPAB006 AS SHOWN IN 2 PLCS.

NOTE: FOR RADIO OPTION, ALIGN LABEL (ITEM 111) OVER HOLE AND ALONG BOTTOM EDGE OF LABEL CUTOUT AS SHOWN. FEED ANTENNA CONNECTOR THRU HOLE AND SECURE WITH PROVIDED LOCK WASHER AND NUT. PLACE IEC LABEL (ITEM 115) IN RECESSED LABEL AREA AS SHOWN.

ITEM	PART NO.	QTY.	DESCRIPTION
92			
91	NS22	5	SCREW, #6-32 X 3/8LG. PHMS, XR-SS316
90			
89	PA40	1	GROUND LUG, #6 X .250 X .032, AMP #42822-4
88	NW02	4	WSHR, FLT,.140X.250X.032-NY, KEYSTN 3122
87	NS01	4	SCREW, #2-56 X 3/16LG. PHMS, XR-SS316
86	IVP1110	2	CHASSIS, RELEASE CLIP COVER, 3860/50
85	AS108	1	SUB-ASSEMBLY, DUAL SPEAKER, 3850/3850R
84	LB2035	1	LABEL, BLANK, ANTENNA FILLER, 1.75 X .60
83	IVPAB019	1	PCBA, SD CARD INTERFACE, 3860
82	AS109	1	SUB-ASSEMBLY, POLE CLAMP KNOB
81	IVP1042	1	SLIDE WEDGE, IV POLE CLAMP
80	LB2034	1	LABEL, BLANK, CHASSIS FILLER, .75 X .75
79	IVPAB038	1	PCBA, 8 PIN FILTER, 4700pF, INLINE DUAL
78	LB2032	1	SEE LABEL CHART PAGE 1 FOR LANGUAGE
77	LB2004	1	SEE LABEL CHART PAGE 1 FOR LANGUAGE
76	AC41	1	CABLE, DC MAIN FEED, 3850/3860, 4 PIN
75	IVPAB021A	1	PCBA, REAR CONN 3850 SERIES
74	IVPAB022	1	PCBA, SIDECAR I/O 3860/50 v2
73	NS13	7	SCR, #4-40 X 5/16LG. PHMS, SS (316)
72	HG08	1	GASKET, R/F, HD20, LAIRD #4164FW51Y00165
71	IVP1107	1	CHASSIS, INTERNAL COVER, 3860
70	IVPAB006	1	PCBA, BATTERY INTERCONNECT
69	HG01	3.25	GASKET, RFI, .090 'D', 82-122-74019-09600
68	IVP1106	1	CHASSIS, REAR HOUSING, 3850/60 SERIES
67	HM25	1	GROMMET, .187 I.D. X .312 O.D., KEYSTONE #534-736
66	PF13	1	FILTER PLATE, 30P, DR, CUSTOM 3000pf
65	IVP1108P	1	CHASSIS, POLE CLAMP TOP, 3850/60 SERIES
64	IVP1109	1	CHASSIS, POLE CLAMP BASE, 3850/60 SERIES
63	IVP1024	2	CLAMP, HANDLE
62	NS21	4	SCREW, #6-32 X 1/4 LG. PHMS, XR-SS316
61	IVP1012	1	HANDLE

unless otherwise noted on dwg.: .XX = ± .010, ∠ = ± 2°

Iradimed Corporation

Drawn: JRN Date: 28FEB11
Eng.: RES Date: 18JUN13
Q.A.: FXC Date: 18JUN13
R.A.: FXC Date: 18JUN13
Mfg.: TWF Date: 18JUN13
Do NOT scale this drawing !

Title: ASSEMBLY, 3850/3850R VER. 2.0, OPTIC
Size: D
Part/Dwg. No: AF3850AOP/3850AROP
Rev: F
Third Angle Projection
Cad. Scale: NA
Sheet 3 of 4

SEE SHEET 1

Rev.	Description	Date
Revision History		

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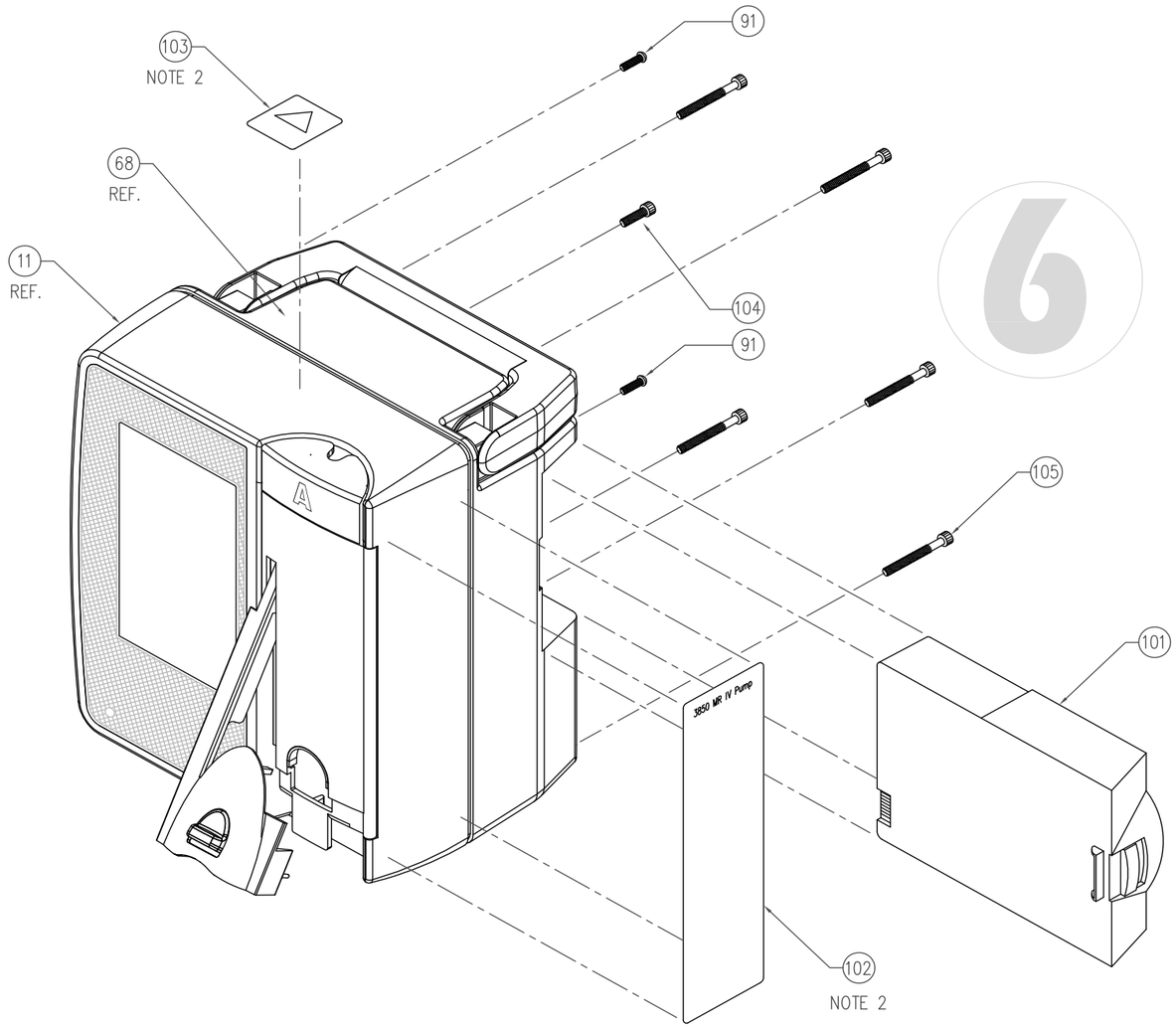
LF21 Rev. A

Figure 5-18. 3850 MR Pump Assembly AF3850AOP Sheet 3 of 4***



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. ATTACH LABEL (ITEM 102) TO SIDE OF FRONT HOUSING (ITEM 11) CENTERED AS SHOWN.

3. ATTACH LABEL (ITEM 103) TO TOP OF FRONT HOUSING (ITEM 11) CENTERED AS SHOWN AND LOCATED .25 ±.06 FROM SEAM.

BATTERY CHART (LANGUAGE VERSIONS)
USE IRM BOM'S FOR EACH AF ASSM NUMBER

LANGUAGE	AF ASSM PN	ITEM 101 BATTERY
ENGLISH	AF3850AOP	1133
GERMAN	AF3850AOPG	1133
FRENCH	AF3850AOPF	1133
JAPANESE	AF3850AOPJ	1133J
ITALIAN	AF3850AOPI	1133I
SPANISH	AF3850AOPS	1133S
SWEDISH	AF3850AOPSW	1133SW
CHINESE	AF3850AOPCH	1133

AS106 RADIO OPTION

115	LB2026	1	LABEL, IEC 60417 SYMBOL, .75" X .75"
114	NS21	3	SCREW, #6-32 X 1/4LG. PHMS, XR-SS316
113	IVPAB015	1	PCBA, RADIO MOUNT/ INTERCONNECT
112	AC28	1	CABLE, ANT., RG178, AEROCOMM 1300-00023
111	LB2005	1	SEE LABEL CHART, PAGE 1 FOR LANGUAGE

ITEM	PART NO.	QTY.	DESCRIPTION
110	HM41	1	DB15F DUST CAP, SOCKET, 538-DA-59-20
109	LB2010	1	SEE LABEL CHART, PAGE 1 FOR LANGUAGE
108	HG07	3.75"	GASKET, .02 X .157, FAB/FOAM, PSA
107			
106			
105	NS33	5	#8-32 X 1-1/2LG. SHCS-SS316
104	NS32	3	#8-32 X 1/2LG. SHCS-SS316
103	LB2003	1	SEE LABEL CHART, PAGE 1 FOR LANGUAGE
102	LB2002	1	SEE LABEL CHART, PAGE 1 FOR LANGUAGE
101	1133	1	SEE BATTERY CHART THIS PAGE FOR LANGUAGE

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Rev.	Description	Date
	Revision History	

unless otherwise noted on dwg.: .XXX = ± .010, .X = ± 2°

Drawn: JRN Date: 28FEB11
Eng: RES Date: 18JUN13
QA: FXC Date: 18JUN13
RA: FXC Date: 18JUN13
Mfg: TWF Date: 18JUN13

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: ASSEMBLY, 3850/3850R VER. 2.0, OPTIC

Size: D

Part/Dwg. No: AF3850AOP/3850AROP

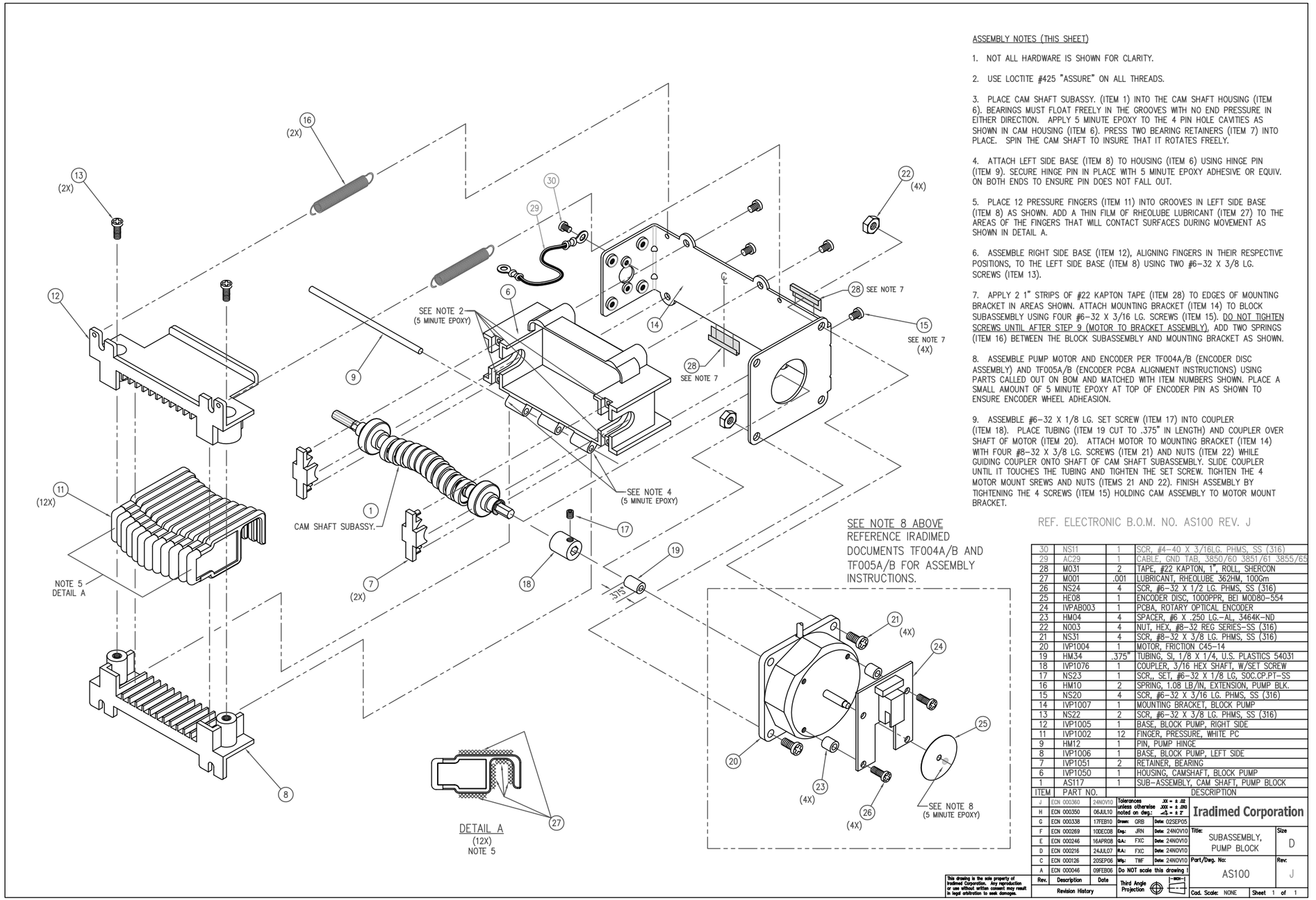
Rev: F

Cad. Scale: NA

Sheet 4 of 4

LF21 Rev. A

Figure 5-19. 3850 MR Pump Assembly AF3850AOP Sheet 4 of 4***



ASSEMBLY NOTES (THIS SHEET)

1. NOT ALL HARDWARE IS SHOWN FOR CLARITY.

2. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

3. PLACE CAM SHAFT SUBASSY. (ITEM 1) INTO THE CAM SHAFT HOUSING (ITEM 6). BEARINGS MUST FLOAT FREELY IN THE GROOVES WITH NO END PRESSURE IN EITHER DIRECTION. APPLY 5 MINUTE EPOXY TO THE 4 PIN HOLE CAVITIES AS SHOWN IN CAM HOUSING (ITEM 6). PRESS TWO BEARING RETAINERS (ITEM 7) INTO PLACE. SPIN THE CAM SHAFT TO INSURE THAT IT ROTATES FREELY.

4. ATTACH LEFT SIDE BASE (ITEM 8) TO HOUSING (ITEM 6) USING HINGE PIN (ITEM 9). SECURE HINGE PIN IN PLACE WITH 5 MINUTE EPOXY ADHESIVE OR EQUIV. ON BOTH ENDS TO ENSURE PIN DOES NOT FALL OUT.

5. PLACE 12 PRESSURE FINGERS (ITEM 11) INTO GROOVES IN LEFT SIDE BASE (ITEM 8) AS SHOWN. ADD A THIN FILM OF RHEOLUBE LUBRICANT (ITEM 27) TO THE AREAS OF THE FINGERS THAT WILL CONTACT SURFACES DURING MOVEMENT AS SHOWN IN DETAIL A.

6. ASSEMBLE RIGHT SIDE BASE (ITEM 12), ALIGNING FINGERS IN THEIR RESPECTIVE POSITIONS, TO THE LEFT SIDE BASE (ITEM 8) USING TWO #6-32 X 3/8 LG. SCREWS (ITEM 13).

7. APPLY 2 1" STRIPS OF #22 KAPTON TAPE (ITEM 28) TO EDGES OF MOUNTING BRACKET IN AREAS SHOWN. ATTACH MOUNTING BRACKET (ITEM 14) TO BLOCK SUBASSEMBLY USING FOUR #6-32 X 3/16 LG. SCREWS (ITEM 15). DO NOT TIGHTEN SCREWS UNTIL AFTER STEP 9 (MOTOR TO BRACKET ASSEMBLY). ADD TWO SPRINGS (ITEM 16) BETWEEN THE BLOCK SUBASSEMBLY AND MOUNTING BRACKET AS SHOWN.

8. ASSEMBLE PUMP MOTOR AND ENCODER PER TF004A/B (ENCODER DISC ASSEMBLY) AND TF005A/B (ENCODER PCBA ALIGNMENT INSTRUCTIONS) USING PARTS CALLED OUT ON BOM AND MATCHED WITH ITEM NUMBERS SHOWN. PLACE A SMALL AMOUNT OF 5 MINUTE EPOXY AT TOP OF ENCODER PIN AS SHOWN TO ENSURE ENCODER WHEEL ADHEASION.

9. ASSEMBLE #6-32 X 1/8 LG. SET SCREW (ITEM 17) INTO COUPLER (ITEM 18). PLACE TUBING (ITEM 19 CUT TO .375" IN LENGTH) AND COUPLER OVER SHAFT OF MOTOR (ITEM 20). ATTACH MOTOR TO MOUNTING BRACKET (ITEM 14) WITH FOUR #8-32 X 3/8 LG. SCREWS (ITEM 21) AND NUTS (ITEM 22) WHILE GUIDING COUPLER ONTO SHAFT OF CAM SHAFT SUBASSEMBLY. SLIDE COUPLER UNTIL IT TOUCHES THE TUBING AND TIGHTEN THE SET SCREW. TIGHTEN THE 4 MOTOR MOUNT SREWS AND NUTS (ITEMS 21 AND 22). FINISH ASSEMBLY BY TIGHTENING THE 4 SCREWS (ITEM 15) HOLDING CAM ASSEMBLY TO MOTOR MOUNT BRACKET.

REF. ELECTRONIC B.O.M. NO. AS100 REV. J

ITEM	PART NO.	QTY	DESCRIPTION
30	NS11	1	SCR, #4-40 X 3/16LG. PHMS, SS (316)
29	AC29	1	CABLE, GND TAB, 3850/60 3851/61 3855/65
28	M031	2	TAPE, #22 KAPTON, 1", ROLL, SHERCON
27	M001	.001	LUBRICANT, RHEOLUBE 362HM, 100Gm
26	NS24	4	SCR, #6-32 X 1/2 LG. PHMS, SS (316)
25	HE08	1	ENCODER DISC, 1000PPR, BEI MOD80-554
24	IVPAB003	1	PCBA, ROTARY OPTICAL ENCODER
23	HM04	4	SPACER, #6 X .250 LG.-AL, 3464K-ND
22	N003	4	NUT, HEX, #8-32 REG SERIES-SS (316)
21	NS31	4	SCR, #8-32 X 3/8 LG. PHMS, SS (316)
20	IVP1004	1	MOTOR, FRICTION C45-14
19	HM34	.375"	TUBING, SI, 1/8 X 1/4, U.S. PLASTICS 54031
18	IVP1076	1	COUPLER, 3/16 HEX SHAFT, W/SET SCREW
17	NS23	1	SCR., SET, #6-32 X 1/8 LG, SOC.CP.PT-SS
16	HM10	2	SPRING, 1.08 LB/IN, EXTENSION, PUMP BLK.
15	NS20	4	SCR, #6-32 X 3/16 LG. PHMS, SS (316)
14	IVP1007	1	MOUNTING BRACKET, BLOCK PUMP
13	NS22	2	SCR, #6-32 X 3/8 LG. PHMS, SS (316)
12	IVP1005	1	BASE, BLOCK PUMP, RIGHT SIDE
11	IVP1002	12	FINGER, PRESSURE, WHITE PC
9	HM12	1	PIN, PUMP HINGE
8	IVP1006	1	BASE, BLOCK PUMP, LEFT SIDE
7	IVP1051	2	RETAINER, BEARING
6	IVP1050	1	HOUSING, CAMSHAFT, BLOCK PUMP
1	AS117	1	SUB-ASSEMBLY, CAM SHAFT, PUMP BLOCK

Rev.	Description	Date
J	ECN 000360	24NOV10
H	ECN 000350	06JUL10
G	ECN 000338	17FEB10
F	ECN 000269	10DEC08
E	ECN 000246	16APR08
D	ECN 000216	24JUL07
C	ECN 000126	20SEP06
A	ECN 000046	09FEB06

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: GRB Date: 02SEP05
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M.A.: FXC Date: 24NOV10
Mfg.: TWF Date: 24NOV10

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: SUBASSEMBLY, PUMP BLOCK

Size: D

Part/Dwg. No: AS100

Rev.: J

Cad. Scale: NONE

Sheet 1 of 1

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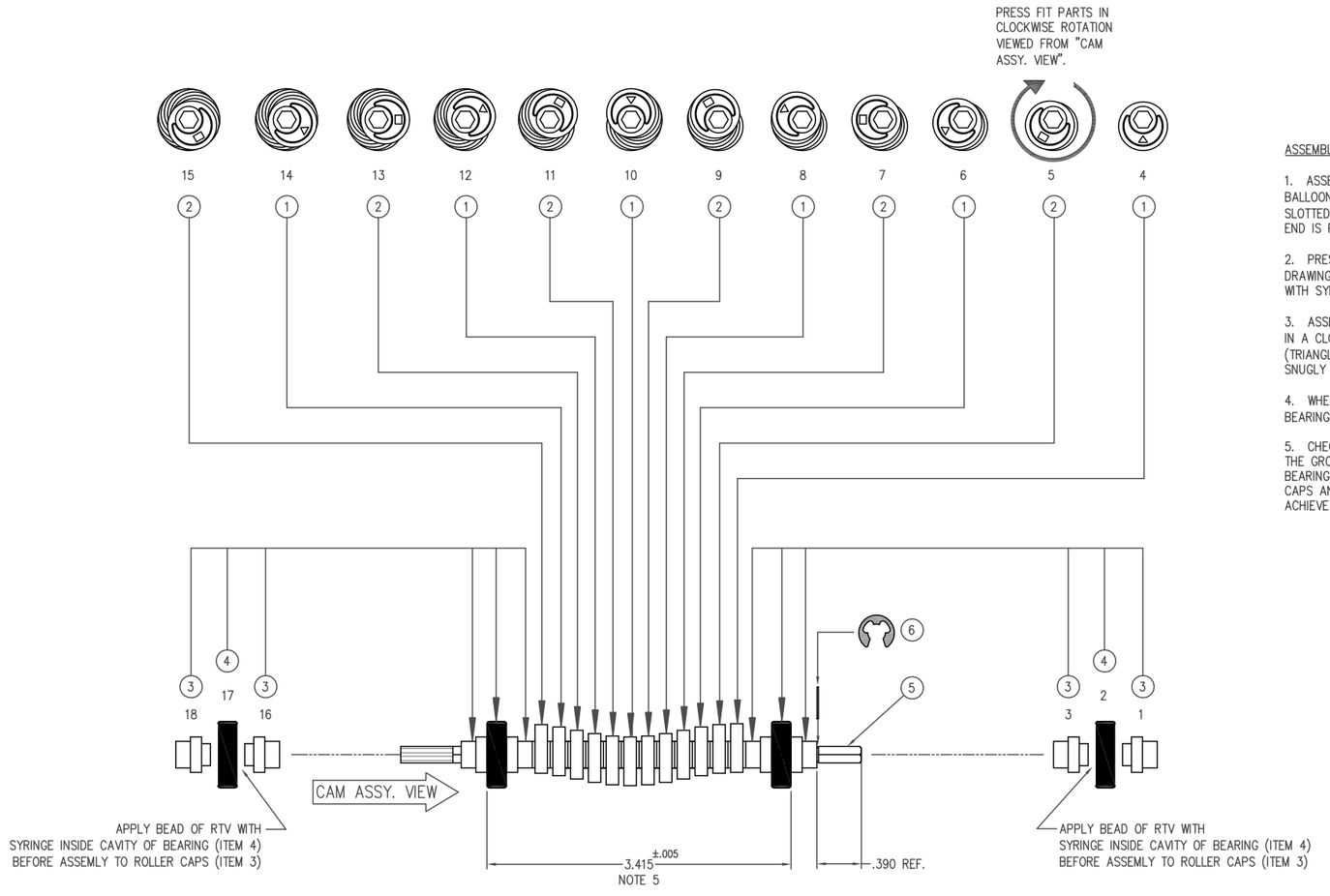
Figure 5-20. AS100 Pump Block Assembly


PRESS FIT PARTS IN CLOCKWISE ROTATION VIEWED FROM "CAM ASSY. VIEW".
15 14 13 12 11 10 9 8 7 6 5 4
2 1 2 1 2 1 2 1 2 1 2 1
3 4 3 18 17 16
6 5
3 4 3 3 2 1
CAM ASSY. VIEW
APPLY BEAD OF RTV WITH SYRINGE INSIDE CAVITY OF BEARING (ITEM 4) BEFORE ASSEMLY TO ROLLER CAPS (ITEM 3)
3.415 ±.005
NOTE 5
.390 REF.
APPLY BEAD OF RTV WITH SYRINGE INSIDE CAVITY OF BEARING (ITEM 4) BEFORE ASSEMLY TO ROLLER CAPS (ITEM 3)

ASSEMBLY NOTES:

1. ASSEMBLE CAM SHAFT AS FOLLOWS, REFER TO THE SEQUENCE NUMBERS (WITHOUT BALLOONS), ALL PARTS ARE "PRESS FIT"; SNAP RETAINER RING (ITEM 6, NR01) ONTO CAM AT SLOTTED AREA. PRESS ONE ROLLER CAP (ITEM 3) ONTO CAM SHAFT (ITEM 5) SO THAT THE END IS PRESSED FIRMLY UP AGAINST RETAINING RING.

2. PRESS ONE BEARING (ITEM 4) ONTO THE SHAFT FROM THE LEFT END AS SHOWN ON DRAWING ("CAM ASSY. VIEW"). ADD ANOTHER ROLLER CAP (ITEM 3). BE SURE TO ADD RTV WITH SYRINGE AS SHOWN.

3. ASSEMBLE THE CAMS, SIX EACH (ITEMS 1 & 2) IN THE SEQUENCE SHOWN, ROTATING EACH IN A CLOCKWISE DIRECTION FROM THE "CAM ASSY. VIEW". USE THE IDENTIFYING MARKS (TRIANGLE OR SQUARE) TO INSURE PROPER ALTERNATING SEQUENCE. INSURE ALL PARTS FIT SNUGLY TO EACH OTHER TO AVOID TOLERANCE BUILD-UP.

4. WHEN ALL CAMS (12) HAVE BEEN ASSEMBLED, PRESS ON ONE ROLLER CAP (ITEM 3), BEARING (ITEM 4) AND ONE ROLLER CAP. BE SURE TO ADD RTV WITH SYRINGE AS SHOWN.

5. CHECK THE ASSEMBLY BY INSURING THAT THE FIRST ROLLER CAP REMAINS IN LINE WITH THE GROOVE ON THE SHAFT AND THAT THE OUTSIDE-TO-OUTSIDE DIMENSION BETWEEN BEARINGS IS AS SHOWN. IF THE DIMENSION IS OVER THE TOLERANCE RANGE, THE ROLLER CAPS AND BEARINGS MUST BE REMOVED. MODIFY THE INNER TWO ROLLER CAPS IN ORDER TO ACHIEVE THE PROPER DIMENSION. UNDER TOLERANCE RANGE IS ACCEPTABLE.

REF. ELECTRONIC B.O.M. NO. AS117 REV. A

ITEM	PART NO.	QTY.	DESCRIPTION
6	NR01	1	RING, RETAINING, E-18BC, BERY COPPER
5	IVP1009	1	SHAFT, CAM
4	HM11A	2	BRNG, NON-MAG, .25 X .75 X .219, SS316, R4A
3	IVP1003	4	CAP, ROLLER, WHITE PC
2	IVP1001B	6	CAM ROLLER, SQUARE INSERT, WHITE PC
1	IVP1001A	6	CAM ROLLER, TRIANGLE INSERT, WHITE PC

Rev.	Description	Date
A	ECN 000269	10DEC08

Revision History

Tolerances unless otherwise noted on dwg.: XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 10DEC08
Eng.: RES Date: 10DEC08
Q.A.: FXC Date: 10DEC08
P.A.: FXC Date: 10DEC08
Mfg.: TWF Date: 10DEC08

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: SUBASSEMBLY, CAM SHAFT, PUMP BLOCK
Size: D
Part/Dwg. No: AS117
Rev: A
Cad. Scale: NONE
Sheet 1 of 1

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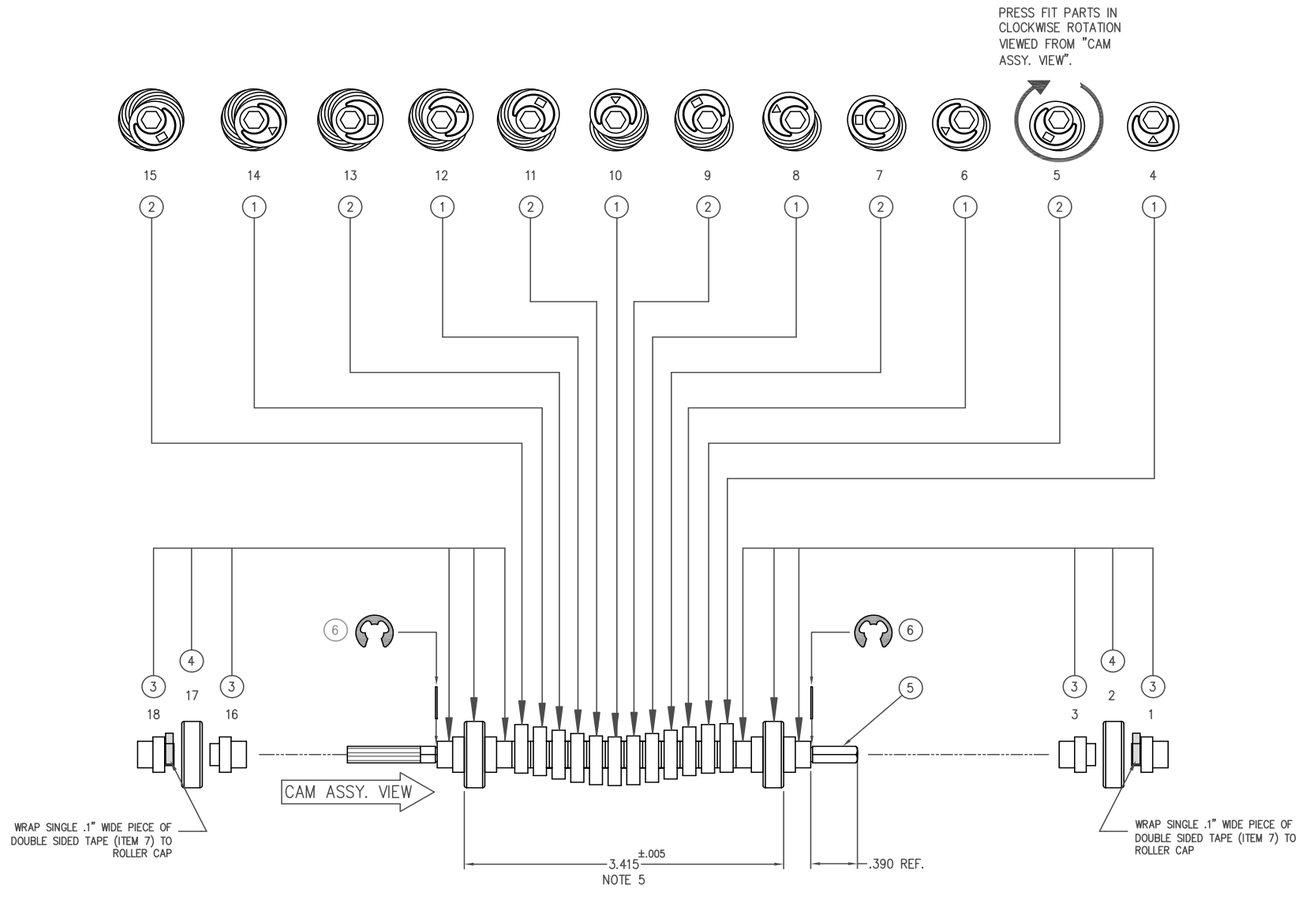
LF21 Rev. A

Figure 5-21. AS117 Cam Shaft, Pump Block Assembly

Figure 5-22. AS100 Bill of Materials (Parts List)

Dwg Item	Part Number	QTY Required	Description
0001	AS117	1	CAM SHAFT, PUMP BLOCK ASSEMBLY
0006	IVP1050	1	HOUSING, CAMSHAFT, BLOCK PUMP
0007	IVP1051	2	RETAINER, BEARING
0008	IVP1006	1	BASE, BLOCK PUMP, LEFT SIDE
0009	HM12	1	PIN, PUMP HINGE
0010	NM02	2	RING, RTNG, EXT. PUSH-ON, 0.125 SHAFT-SS
0011	IVP1002	12	FINGER, PRESSURE
0012	IVP1005	1	BASE, BLOCK PUMP, RIGHT SIDE
0013	NS22	2	SCREW, #6-32 x 3/8LG. PHMS, XR-SS316
0014	IVP1007	1	MOUNTING BRACKET, BLOCK PUMP
0015	NS20	4	SCREW, #6-32 X 3/16LG. PHMS, XR-SS316
0016	HM10	2	SPRING, 1.1LB.TNSN, A.S. #MKEE2400261750
0017	NS23	1	SCREW,SET,#6-32 X 1/8LG. SOC.CP.PT-SS316
0018	IVP1076	1	COUPLER, 3/16 HEX SHAFT, W/ SET SCREW
0019	HM34	0.001	TUBING, SI, 1/8 X 1/4, 54031 USP
0020	IVP1004	1	MOTOR, FRICTION
0021	NS31	4	SCREW, #8-32 x 3/8LG. PHMS, XR-SS316
0022	N003	4	NUT, HEX, #8-32 REG. SERIES-SS316
0023	HM04	4	SPACER, #6 X 0.250LG.-Al, #3464K-ND
0024	IVPAB003	1	PCBA, ROTARY OPTICAL ENCODER
0025	HE08	1	ENCODER DISC, BEI #MOD80-554, 1000PPR
0026	NS24	4	SCREW, #6-32 x 1/2”, PHMS, XR-SS316
0028	M030	2”	TAPE, #22 KAPTON, 1/2”, ROLL, SHERCON
0030	NR01	1	RING, RETAINING, E-18BC, BERY COPPER


PRESS FIT PARTS IN CLOCKWISE ROTATION VIEWED FROM "CAM ASSY. VIEW".
15 14 13 12 11 10 9 8 7 6 5 4
2 1 2 1 2 1 2 1 2 1 2 1
6
4
3 17 3
18 16
3 2 3
3 2 1
CAM ASSY. VIEW
WRAP SINGLE .1" WIDE PIECE OF DOUBLE SIDED TAPE (ITEM 7) TO ROLLER CAP
WRAP SINGLE .1" WIDE PIECE OF DOUBLE SIDED TAPE (ITEM 7) TO ROLLER CAP
3.415 ±.005
NOTE 5
.390 REF.

ASSEMBLY NOTES:

1. ASSEMBLE CAM SHAFT AS FOLLOWS, REFER TO THE SEQUENCE NUMBERS (WITHOUT BALLOONS), ALL PARTS ARE "PRESS FIT"; SNAP RETAINER RING (ITEM 6, NR01) ONTO CAM AT SLOTTED AREA. PRESS ONE ROLLER CAP (ITEM 3) ONTO CAM SHAFT (ITEM 5) SO THAT THE END IS PRESSED FIRMLY UP AGAINST RETAINING RING.

2. PRESS ONE BEARING (ITEM 4) ONTO THE SHAFT FROM THE LEFT END AS SHOWN ON DRAWING ("CAM ASSY. VIEW"). ADD ANOTHER ROLLER CAP (ITEM 3). BE SURE TO ADD TAPE (ITEM 7) AS SHOWN.

3. ASSEMBLE THE CAMS, SIX EACH (ITEMS 1 & 2) IN THE SEQUENCE SHOWN, ROTATING EACH IN A CLOCKWISE DIRECTION FROM THE "CAM ASSY. VIEW". USE THE IDENTIFYING MARKS (TRIANGLE OR SQUARE) TO INSURE PROPER ALTERNATING SEQUENCE. INSURE ALL PARTS FIT SNUGLY TO EACH OTHER TO AVOID TOLERANCE BUILD-UP.

4. WHEN ALL CAMS (12) HAVE BEEN ASSEMBLED, PRESS ON ONE ROLLER CAP (ITEM 3), BEARING (ITEM 4) AND ONE ROLLER CAP. BE SURE TO ADD TAPE (ITEM 7) AS SHOWN. SNAP SECOND RETAINER RING (ITEM 6, NR01) ONTO CAM AT SECOND SLOTTED AREA.

5. CHECK THE ASSEMBLY BY INSURING THAT THE FIRST ROLLER CAP REMAINS IN LINE WITH THE GROOVE ON THE SHAFT AND THAT THE OUTSIDE-TO-OUTSIDE DIMENSION BETWEEN BEARINGS IS AS SHOWN. IF THE DIMENSION IS OVER THE TOLERANCE RANGE, THE ROLLER CAPS AND BEARINGS MUST BE REMOVED. MODIFY THE INNER TWO ROLLER CAPS IN ORDER TO ACHIEVE THE PROPER DIMENSION. UNDER TOLERANCE RANGE IS ACCEPTABLE.

REF. ELECTRONIC B.O.M. NO. AS117A REV. C

ITEM	PART NO.	QTY.	DESCRIPTION
7	M067	.2"	TAPE, TRANSFER, ROLL 2.3 MIL X 3/4", 3M
6	NR01	2	RING, RETAINING, E-18BC, BERY COPPER
5	IVP1009A	1	SHAFT, CAM, CUI ENCODER
4	HM11A	2	BRNG, NON-MAG, .25 X .75 X .219, SS316, R4A
3	IVP1003	4	CAP, ROLLER, WHITE PC
2	IVP1001B	6	CAM ROLLER, SQUARE INSERT, WHITE PC
1	IVP1001A	6	CAM ROLLER, TRIANGLE INSERT, WHITE PC

Rev.	Description	Date
C	ECN 000463	18JAN13
B	ECN 000461	14DEC12
A	ECN 000435	05SEP12

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

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M'fg.: TWF Date: 18JAN13

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: SUBASSM, CUI CAM SHAFT, PUMP BLOCK

Size: D

Part/Dwg. No: AS117A

Rev: C

Cad. Scale: NONE

Sheet 1 of 1

LF21 Rev. A

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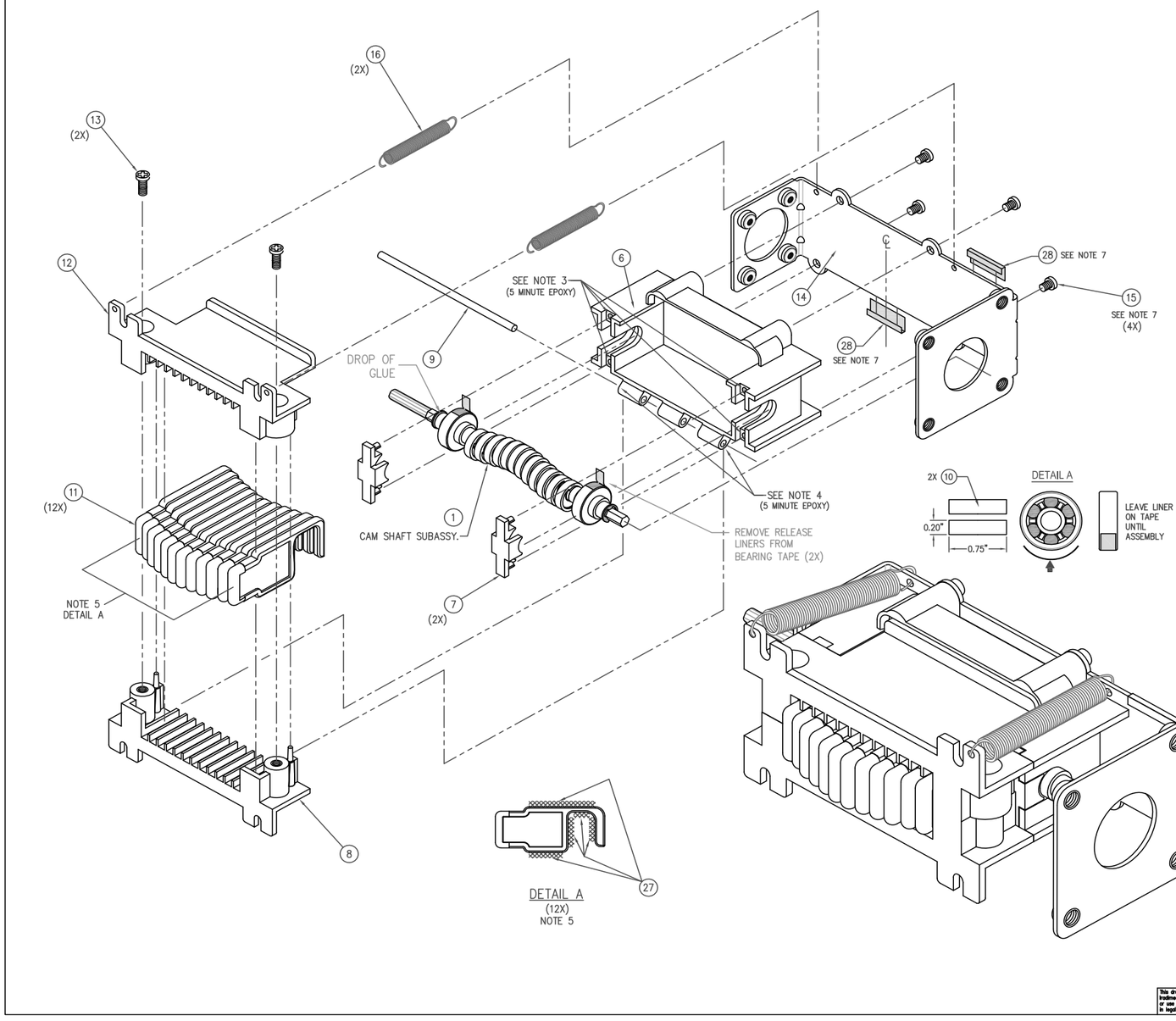
Figure 5-23. AS117A Cam Shaft Assembly



ASSEMBLY NOTES (THIS SHEET)

1. NOT ALL HARDWARE IS SHOWN FOR CLARITY.

2. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

3. PRIOR TO ASSEMBLY ADD DOUBLE SIDED TAPE (ITEM 10) TO BOTTOM SIDE OF EACH BEARING AS SHOWN IN DETAIL "A". REMOVE TAPE RELEASE LINERS (2X) OFF OF BOTH BEARINGS AND PLACE CAM SHAFT SUB-ASSEMBLY (ITEM 1) INTO THE CAM SHAFT HOUSING (ITEM 6) AS SHOWN. APPLY 5 MINUTE EPOXY TO THE 4 PIN HOLE CAVITIES AS SHOWN IN CAM HOUSING (ITEM 6). PRESS THE TWO BEARING RETAINERS (ITEM 7) INTO PLACE. SPIN THE CAM SHAFT TO INSURE THAT IT ROTATES FREELY. ADD ONE DROP OF GLUE AT BEARING CAP AND C CLIP AS SHOWN.

4. ATTACH LEFT SIDE BASE (ITEM 8) TO HOUSING (ITEM 6) USING HINGE PIN (ITEM 9). SECURE HINGE PIN IN PLACE WITH 5 MINUTE EPOXY ADHESIVE OR EQUIV. ON BOTH ENDS TO ENSURE PIN DOES NOT FALL OUT.

5. PLACE 12 PRESSURE FINGERS (ITEM 11) INTO GROOVES IN LEFT SIDE BASE (ITEM 8) AS SHOWN. ADD A THIN FILM OF RHEOLUBE LUBRICANT (ITEM 27) TO THE AREAS OF THE FINGERS THAT WILL CONTACT SURFACES DURING MOVEMENT AS SHOWN IN DETAIL A.

6. ASSEMBLE RIGHT SIDE BASE (ITEM 12), ALIGNING FINGERS IN THEIR RESPECTIVE POSITIONS, TO THE LEFT SIDE BASE (ITEM 8) USING GUIDE PINS AND TWO #6-32 X 3/8 LG. SCREWS (ITEM 13).

7. APPLY 2 1" STRIPS OF #22 KAPTON TAPE (ITEM 28) TO EDGES OF MOUNTING BRACKET IN AREAS SHOWN. ATTACH MOUNTING BRACKET (ITEM 14) TO BLOCK SUBASSEMBLY USING FOUR #6-32 X 3/16 LG. SCREWS (ITEM 15). ADD TWO SPRINGS (ITEM 16) BETWEEN THE BLOCK SUBASSEMBLY AND MOUNTING BRACKET AS SHOWN.

REF. ELECTRONIC B.O.M. NO. AS132A REV. C

ITEM	PART NO.		DESCRIPTION
28	M031	2	TAPE, #22 KAPTON, 1", ROLL, SHERCON
27	M001	.001	LUBRICANT, RHEOLUBE 362HM, 100Gm
16	HM10	2	SPRING, 1.08 LB/IN, EXTENSION, PUMP BLK.
15	NS20	4	SCR, #6-32 X 3/16 LG. PHMS, SS (316)
14	IVP1007A	1	MOUNTING BRACKET, CUI PUMP BLOCK
13	NS22	2	SCR, #6-32 X 3/8 LG. PHMS, SS (316)
12	IVP1005	1	BASE, BLOCK PUMP, RIGHT SIDE
11	IVP1002	12	FINGER, PRESSURE, WHITE PC
10	M067	1.50"	TAPE, TRANSFER, ROLL 2.3 MIL X 3/4", 3M
9	HM12	1	PIN, PUMP HINGE
8	IVP1006	1	BASE, BLOCK PUMP, LEFT SIDE
7	IVP1051	2	RETAINER, BEARING
6	IVP1050	1	HOUSING, CAMSHAFT, BLOCK PUMP
1	AS117A	1	SUB-ASSEMBLY, CUI CAM, PUMP BLOCK

Rev.	Description	Date
C	ECN 000463	18JAN13
B	ECN 000461	14DEC12
A	ECN 000435	05SEP12

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 05SEP12
Eng.: RES Date: 18JAN13
Q.A.: FXC Date: 18JAN13
R.A.: FXC Date: 18JAN13
Mfg.: TWF Date: 18JAN13

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: SUBASSEMBLY, TOP ENCODER, PUMP BLOCK
Size: D
Part/Dwg. No: AS132A
Rev.: C
Cad. Scale: NONE
Sheet 1 of 1

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Figure 5-24. AS132A Pump Block Assembly

ASSEMBLY NOTES:

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. ASSEMBLE IVPAB043 PCBA (ITEM 7) AND GROUND WIRE (ITEM 9) TO TOP OF PUMP CHASSIS USING BRASS ALIGNMENT TOOL (TF016) TO CENTER PCBA TO SHAFT AND 2 #4–40 X 3/16" SCREWS (ITEM 8) AND 2 #4–40 FLAT HEAD SCREWS (ITEM 11).

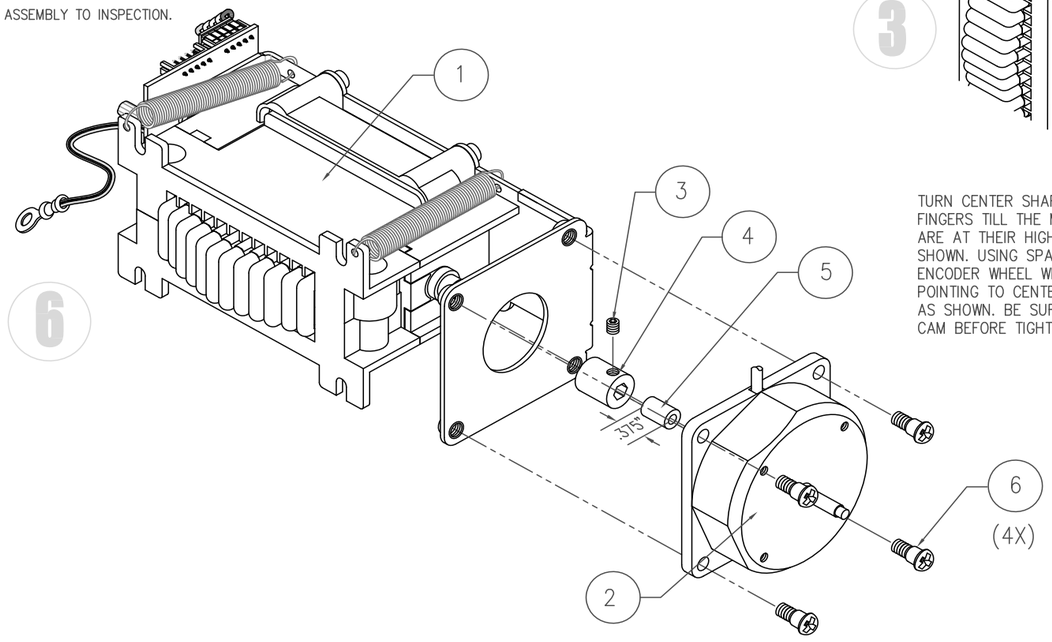
3. ENCODER ASSEMBLY: ALIGN ENCODER BASE (ITEM 10A) OVER PCBA AND ALIGNMENT TOOL AS SHOWN AND INSTALL USING 2 #4–40 SCREWS (ITEM 8). REMOVE ALIGNMENT TOOL ONCE ENCODER BASE IS SECURED TO PCBA.

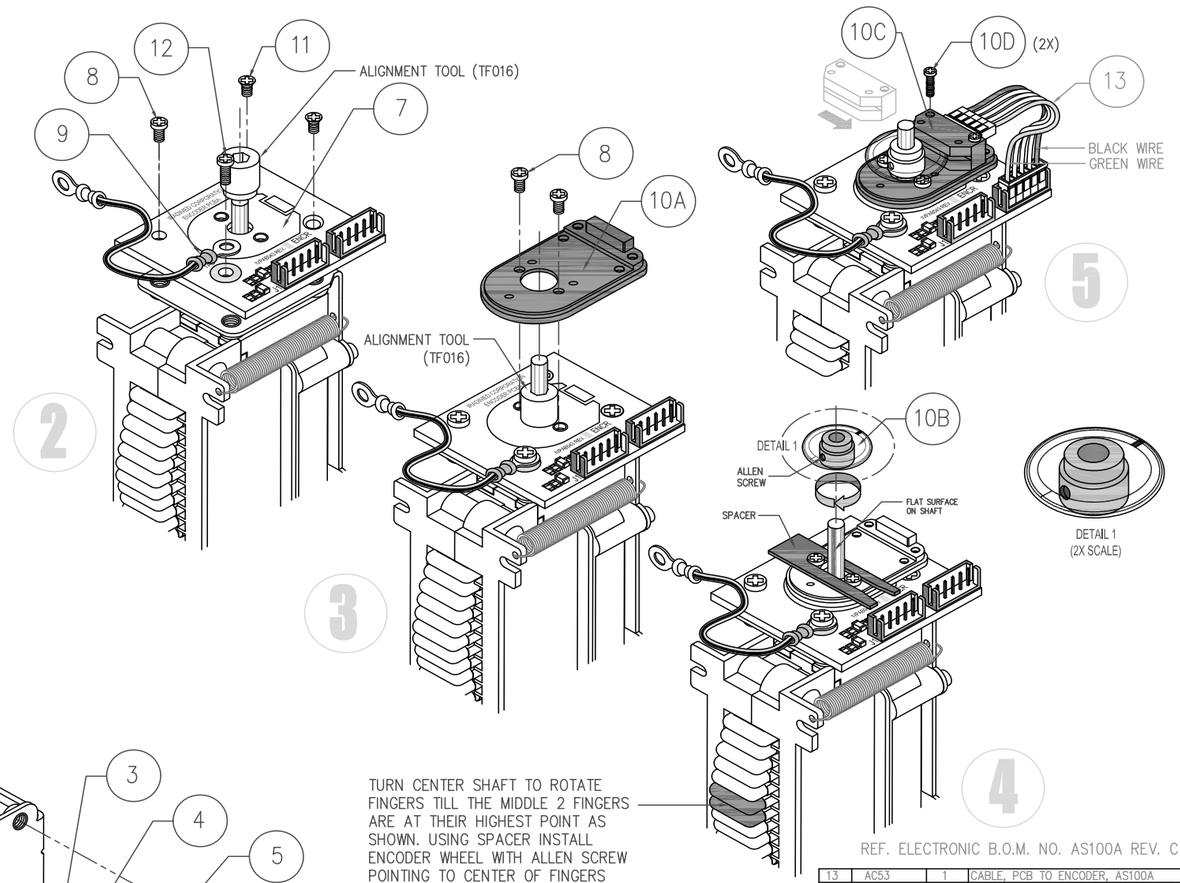
4. TURN CENTER SHAFT TO ROTATE FINGERS TILL THE MIDDLE 2 FINGERS ARE AT THEIR HIGHEST POINT AS SHOWN. USING PROVIDED SPACER, INSTALL ENCODER HUBDISC (ITEM 10B) WITH ALLEN SCREW POINTING TO CENTER OF FINGERS AS SHOWN (SINGLE BLACK LINE ON ENCODER DISC INDICATES ALLEN POSITION). TIGHTEN ALLEN SCREW WITH PROVIDED ALLEN WRENCH USING BLUE LOCTITE.

5. INSTALL ENCODER OPTICAL MODULE (ITEM 10C) BY SLIDING INTO PLACE ALLOWING FOR ENCODER DISC TO POSITION INTO GAP. USING 2 SUPPLIED 4–40 SCREWS (ITEM 10D), TIGHTEN READER HEAD INTO PLACE (USE BLUE LOCTITE ON THREADS). PLUG AC53 CABLE ASSEMBLY (ITEM 13) INTO ENCODER HEAD AND LOCATION J2 ON IVPAB043 BOARD AS SHOWN.

6. ASSEMBLE #6–32 X 1/8 LG. SET SCREW (ITEM 3) INTO COUPLER (ITEM 4). PLACE TUBING (ITEM 5 CUT TO .375" IN LENGTH) AND COUPLER OVER SHAFT OF MOTOR (ITEM 2). ATTACH MOTOR TO BOTTOM MOUNTING BRACKET OF AS117A BLOCK ASSEMBLY (ITEM 1) WITH FOUR #8 TO #6–32 X .430" SS316 SHOULDER SCREWS (ITEM 6) WHILE GUIDING COUPLER ONTO SHAFT OF CAM SHAFT SUBASSEMBLY. SLIDE COUPLER UNTIL IT TOUCHES THE TOP OF THE TUBING AND TIGHTEN THE SET SCREW.

7. ROUTE ASSEMBLY TO INSPECTION.





REF. ELECTRONIC B.O.M. NO. AS100A REV. C

ITEM	PART NO.		DESCRIPTION
13	AC53	1	CABLE, PCB TO ENCODER, AS100A
12	NS12	1	SCR, #4–40 X 1/4LG. PHMS, SS (316)
11	NS17	2	SCR, #4–40 X 1/4LG. FHMS, SS (316)
10D	HE15D	2	ENCODER, FASTENER, SCREW–440–500–PH
10C	HE15C	1	ENCODER, OPTICAL MODULE EM1–1–1000–1
10B	HE15B	1	ENCODER, HUBDISC–1–1000–197–IE–55009
10A	HE15A	1	ENCODER, E5 BASE, BASE–E5–197–5–D
9	AC29	1	CABLE, GND TAB, 3850/60 3851/61 3855/65
8	NS11	3	SCR, #4–40 X 3/16LG. PHMS, SS (316)
7	IVPAB043	1	PCBA, CUI ENCODER, 3850/3860 SERIES
6	NS41	4	SCR, SHOULDER, #8 TO #6–32 X .410" SS316
5	HM34	.375"	TUBING, SI, 1/8 X 1/4, U.S. PLASTICS 54031
4	IVP1076	1	COUPLER, 3/16 HEX SHAFT, W/SET SCREW
3	NS23	1	SCR, SET, #6–32 X 1/8 LG, SOC.CP.PT–SS
2	IVP1004	1	MOTOR, FRICTION C45–14
1	AS132A	1	SUB–ASSEMBLY, CAM SHAFT, CUI PUMP BLOCK

Rev.	Description	Date
C	ECN 000459	03DEC12
B	ECN 000457	15NOV12
A	ECN 000435	05SEP12

Revision History

Tolerances unless otherwise noted on dwg: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 05SEP12
Eng.: RES Date: 03DEC12
Q.A.: FXC Date: 03DEC12
M.A.: FXC Date: 03DEC12
Mfg.: TWF Date: 03DEC12

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: SUBASSEMBLY, CUI PUMP BLOCK

Size: D

Part/Dwg. No: AS100A

Rev: C

Cad. Scale: NONE Sheet 1 of 1

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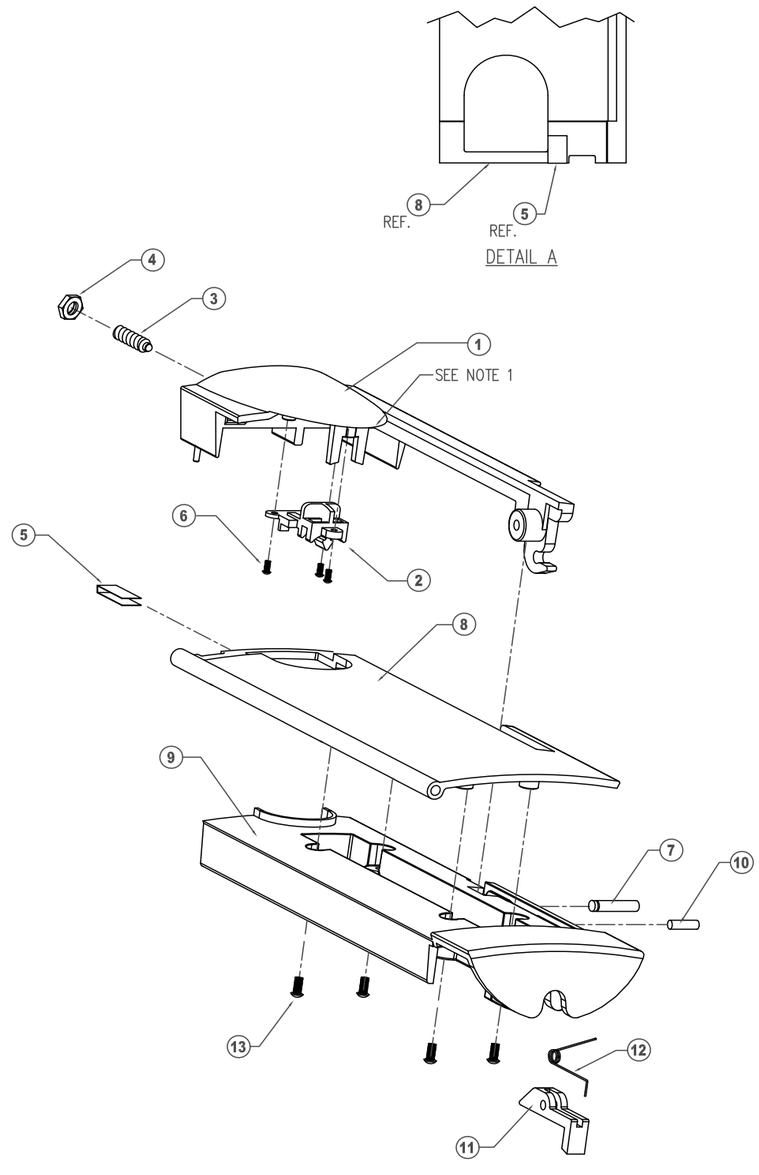
Figure 5-25. AS100A Pump Assembly W/ Top Encoder



ASSEMBLY NOTES:

1. USING 3 #2–56 X 3/16 PAN HD. SCREWS (ITEM 6), ATTACH CLAMP CLIP (ITEM 2) TO THE BACK OF CLAMP HANDLE (ITEM 1) AS SHOWN. INSPECT AND REMOVE ANY SHARP EDGES FROM HANDLE PARABOLA USING FINE GRIT SANDPAPER. DO NOT OVER–TIGHTEN SCREWS.

2. THREAD M5 HEX NUT (ITEM 4) ONTO M5 SPRING PLUNGER (ITEM 3) AND THEN THREAD THE SPRING PLUNGER INTO THE CLAMP HANDLE (ITEM 1). FINGER TIGHTEN ONLY. FINAL ADJUSTMENT IS TO BE MADE AFTER UNIT ASSEMBLY IS COMPLETE.

3. ALIGN CLAMP HANDLE INTO DOOR PRESSURE PLATE (ITEM 9) BY PLACING ROUNDED BEARING END OF CLAMP HANDLE INTO THE U–SHAPED CUTOUT IN THE FACE OF THE CLEAR PRESSURE PLATE. PRESS FIT THE BRASS CLAMP PIN (ITEM 7) THROUGH FROM THE OUTSIDE OF THE PLASTIC PRESSURE PLATE, THRU THE HOLE OF THE CLAMP HANDLE AND THEN THRU THE OTHER SIDE OF THE PLASTIC UNTIL PIN STOPS AGAINST INSIDE WALL OF PRESSURE PLATE.

4. NEXT PLACE THE LATCH PAW TORSION SPRING (ITEM 12) INTO THE DOOR LATCH PAW (ITEM 11) AS SHOWN ALIGNING THE HOLES OF THE LATCH PAW WITH THAT OF THE SPRING. SLIDE LATCH PAW AND SPRING (COMPRESSING SPRING WITH FINGER) FROM BACKSIDE OF PRESSURE PLATE (ITEM 9) UNTIL HOLES LINE UP WITH THE SIDE WALL. PRESS FIT BRASS PIN (ITEM 10) THRU OUTSIDE WALL GUIDING IT THRU THE LATCH PAW AND TORSION SPRING UNTIL SEATING IT FLUSH AGAINST THE PRESSURE PLATE INSIDE WALL.

5. ONCE THE CLAMP HANDLE AND PAW ARE INSTALLED IN THE PRESSURE PLATE, ROTATE CLAMP OUTWARDS AND UP TO APPROXIMATELY A 45˚ ANGLE. THE CLAMP HANDLE SHOULD LATCH AGAINST THE PAW AND BE HELD IN PLACE. ALIGN DOOR FRONT (ITEM 8) OVER PRESSURE PLATE AS SHOWN ALIGNING THE 4 BOSSES WITH THIER APPROPRIATE CHANNELS IN THE PRESSURE PLATE. USING 4 #4–40 X 1/4LG. SCREWS (ITEM 13) ATTACH THE DOOR AND PLATE TOGETHER.

6. ONCE DOOR IS IN PLACE, PRESS FOOT OF LATCH PAW FROM BOTTOM SIDE ALLOWING THE CLAMP HANDLE TO ROTATE BACK TO ITS CLOSED POSITION. INSURE THAT ALL ASSEMBLIES HAVE CLEARANCE AS THE HANDLE ROTATES INTO PLACE.

7. ATTACH STRIKE PLATE (ITEM 5) TO FRONT DOOR (ITEM 8) AS SHOWN IN DETAIL A USING CONTACT CEMENT (ITEM 14). ALLOW CONTACT CEMENT TO DRY COMPLETELY BEFORE ASSEMBLING DOOR INTO AF3850.

ITEM	PART NO.	QTY.	DESCRIPTION
14	M017	0.0001	ADHESIVE, CONTACT CEMENT, ACE HARDWARE 12773
13	NS12	4	SCREW, #4–40 X 1/4LG. PHMS–SS316
12	HM16	1	SPRING, TORSION, DOOR LATCH PAW
11	IVP1038	1	PAW, DOOR LATCH
10	HM15	1	PIN, DOOR LATCH PAW
9	IVP1029	1	PRESSURE PLATE, DOOR, INSIDE
8	IVP1030P	1	DOOR, FRONT, PAINTED
7	HM14	1	PIN, CLAMP HANDLE
6	NS01	3	SCREW, #2–56 X 3/16LG. PHMS–SS316
5	IVP1083	1	STRIKE PLATE, DOOR LATCH
4	N004	1	NUT, HEX, M5 X .8 X 2.7mm THK.–SS316
3	HM27	1	BALL PLUNGER, M5 X .8 X 12mm LG.–SS316
2	IVP1068	1	CLAMP CLIP, DOOR
1	IVP1031	1	CLAMP HANDLE, DOOR

Rev.	Description	Date
A	ECN 000044	14FEB06
01	REAL 1 EA. ITEMS 3, 4, & 5	17AUG05
0	CONVERT FROM AS3850	11JUL05

SCALE NONE | .X=0.05 .XX=0.01 .XXX=0.005

DRAWN BY: John Nelson 02–08–2005; CHKD: GRB 25JAN06; APPVD.: JN/TMF/FXC 13FEB06

DATE

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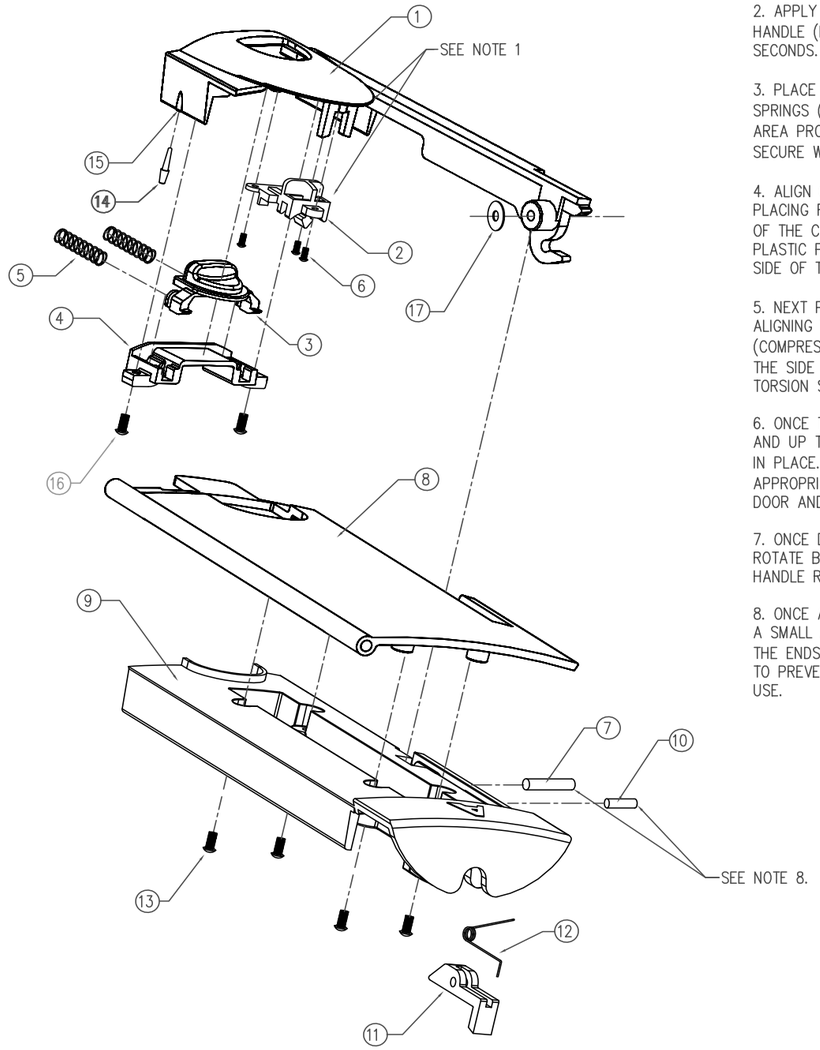
Iradimed Corporation

Drawing Number AS102 | REV A

Drawing Name SUB–ASSEMBLY, FRONT DOOR | Size C

SHEET 1 OF 1

Figure 5-26. AS102 Sub-Assembly, 3850, Door



ASSEMBLY NOTES:

1. USING 3 #2-56 X 3/16 PAN HD. SCREWS (ITEM 6), ATTACH CLAMP CLIP (ITEM 2) TO THE BACK OF CLAMP HANDLE (ITEM 1) AS SHOWN. INSPECT AND REMOVE ANY SHARP EDGES FROM HANDLE PARABOLA USING FINE GRIT SANDPAPER. DO NOT OVER-TIGHTEN SCREWS.

2. APPLY A COUPLE DROPS OF LOCTITE 380 (BLACK MAX (ITEM 15)) INTO HOLE ON UNDERSIDE OF CLAMP HANDLE (ITEM 1). QUICKLY PRESS RUBBER PIN (ITEM 14) INTO HOLE AS SHOWN AND AND HOLD FOR 2 SECONDS. IMMEDIATELY WIPE AWAY ANY EXCESS ADHESIVE AROUND BASE OF RUBBER PIN.

3. PLACE CLAMP LATCH SLIDER (ITEM 3) ONTO CLAMP LATCH COVER (ITEM 4) ALONG WITH 2 COMPRESSION SPRINGS (ITEM 5) (COMPRESS AND PLACE INTO COVER HOLDING SLIDER IN PLACE). PLACE THIS ASSEMBLY IN AREA PROVIDED IN BACKSIDE OF CLAMP (ASSURE BUTTON SIDE OF SLIDER IS PROTRUDING THRU CLAMP) AND SECURE WITH 2 SCREWS (ITEM 16).

4. ALIGN CLAMP HANDLE (ITEM 1) AND WAVE WASHER (ITEM 17) INTO DOOR PRESSURE PLATE (ITEM 9) BY PLACING ROUNDED BEARING END OF CLAMP HANDLE AND WASHER INTO THE U-SHAPED CUTOUT IN THE FACE OF THE CLEAR PRESSURE PLATE. PRESS FIT THE BRASS CLAMP PIN (ITEM 7) THRU FROM THE OUTSIDE OF THE PLASTIC PRESSURE PLATE, THRU THE HOLE OF THE CLAMP HANDLE, THRU WASHER AND THEN THRU THE OTHER SIDE OF THE PLASTIC UNTIL PIN STOPS AGAINST INSIDE WALL OF PRESSURE PLATE.

5. NEXT PLACE THE LATCH PAW TORSION SPRING (ITEM 12) INTO THE DOOR LATCH PAW (ITEM 11) AS SHOWN ALIGNING THE HOLES OF THE LATCH PAW WITH THAT OF THE SPRING. SLIDE LATCH PAW AND SPRING (COMPRESSING SPRING WITH FINGER) FROM BACKSIDE OF PRESSURE PLATE (ITEM 9) UNTIL HOLES LINE UP WITH THE SIDE WALL. PRESS FIT BRASS PIN (ITEM 10) THRU OUTSIDE WALL GUIDING IT THRU THE LATCH PAW AND TORSION SPRING UNTIL SEATING IT FLUSH AGAINST THE PRESSURE PLATE INSIDE WALL.

6. ONCE THE CLAMP HANDLE AND PAW ARE INSTALLED IN THE PRESSURE PLATE, ROTATE CLAMP OUTWARDS AND UP TO APPROXIMATELY A 45° ANGLE. THE CLAMP HANDLE SHOULD LATCH AGAINST THE PAW AND BE HELD IN PLACE. ALIGN DOOR FRONT (ITEM 8) OVER PRESSURE PLATE AS SHOWN ALIGNING THE 4 BOSSES WITH THIER APPROPRIATE CHANNELS IN THE PRESSURE PLATE. USING 4 #4-40 X 1/4LG. SCREWS (ITEM 13) ATTACH THE DOOR AND PLATE TOGETHER.

7. ONCE DOOR IS IN PLACE, PRESS FOOT OF LATCH PAW FROM BOTTOM SIDE ALLOWING THE CLAMP HANDLE TO ROTATE BACK TO ITS CLOSED AND LOCKED POSITION. INSURE THAT ALL ASSEMBLIES HAVE CLEARANCE AS THE HANDLE ROTATES INTO PLACE.

8. ONCE ASSEMBLY IS FINISHED, APPLY A SMALL AMOUNT OF 2 PART EPOXY TO THE ENDS OF BRASS PINS (ITEM 7 AND 10) TO PREVENT FROM PUSHING OUT DURING USE.

ITEM	PART NO.	QTY.	DESCRIPTION
17	NW06	1	WSHR, WAVE, 18-8SS, .208 ID X .385 OD
16	NS13	2	SCR, #4-40 X 5/16LG. PHMS, SS (316)
15	M044	0.01	LOCKTITE 380, INSTANT ADHESIVE, BLACK
14	IVP1099	1	DOOR CLAMP PIN, 3850/3851
13	NS12	4	SCREW, #4-40 X 1/4LG. PHMS, XR-SS316
12	HM16	1	SPRING, TORSION, DOOR LATCH PAW
11	IVP1038	1	PAW, DOOR LATCH
10	HM15	1	PIN, DOOR LATCH PAW
9	IVP1029T	1	PRESSURE PLATE, DOOR, 3850 TAPER
8	IVP1030AP	1	DOOR, FRONT, LATCHING, 3850, PAINTED
7	HM14	1	PIN, CLAMP HANDLE
6	NS01	3	SCREW, #2-56 X 3/16LG. PHMS, XR-SS316
5	HM17	2	SPRING, SPRING ARM COMPRESSION
4	IVP1095	1	CLAMP LATCH, COVER, 3850-3851
3	IVP1094	1	CLAMP LATCH, SLIDER, 3850-3851
2	IVP1068	1	CLAMP CLIP, DOOR
1	IVP1031A	1	CLAMP HANDLE, DOOR, 3850, LATCHED

Rev.	Description	Date
C	ECN 000371	26JAN11
B	ECN 000346	10MAY10
A	ECN 000160	18MAY07

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 04DEC06
Eng.: RES Date: 26JAN11
Q.A.: FXC Date: 26JAN11
R.A.: FXC Date: 26JAN11
Mfg.: TWF Date: 26JAN11

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: SUB-ASSEM, FRONT DOOR, 3850, LATCHING
Size: C
Part/Dwg. No: AS112
Rev: C
Cad. Scale: NA
Sheet 1 of 1

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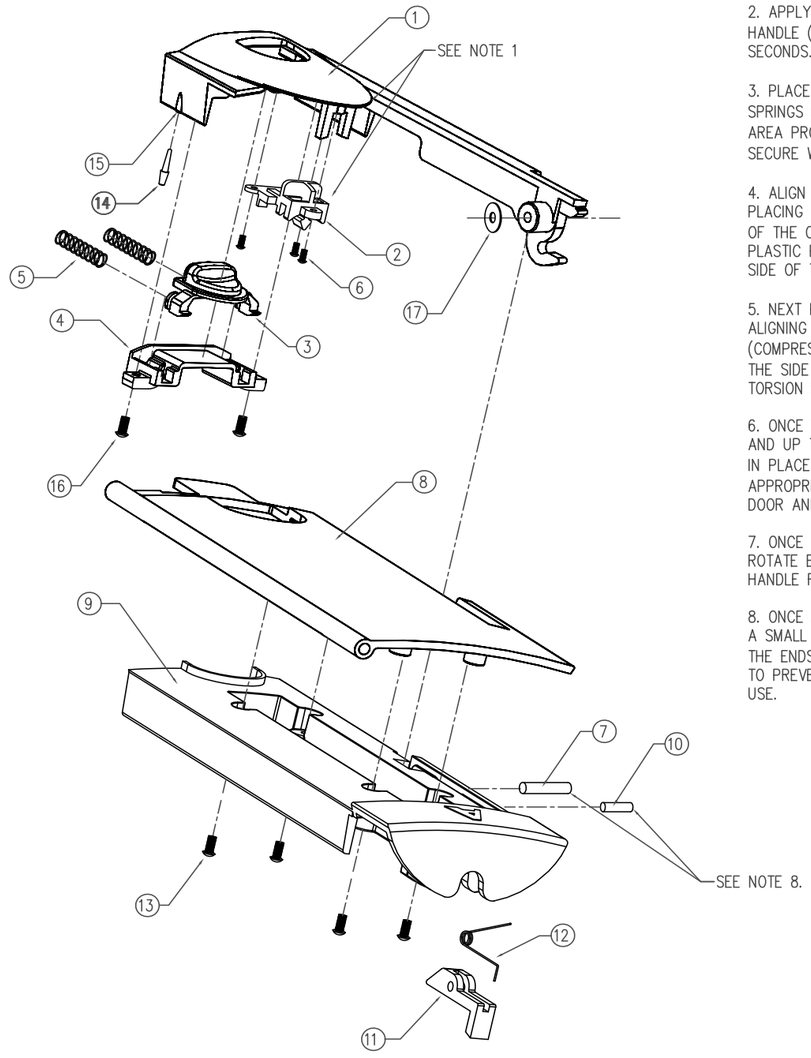
LF20 Rev. A

Figure 5-27. AS112 Sub-Assembly, 3850, Door, Latching (V2)*



ASSEMBLY NOTES:

1. USING 3 #2–56 X 3/16 PAN HD. SCREWS (ITEM 6), ATTACH CLAMP CLIP (ITEM 2) TO THE BACK OF CLAMP HANDLE (ITEM 1) AS SHOWN. INSPECT AND REMOVE ANY SHARP EDGES FROM HANDLE PARABOLA USING FINE GRIT SANDPAPER. DO NOT OVER–TIGHTEN SCREWS.

2. APPLY A COUPLE DROPS OF LOCTITE 380 (BLACK MAX (ITEM 15)) INTO HOLE ON UNDERSIDE OF CLAMP HANDLE (ITEM 1). QUICKLY PRESS RUBBER PIN (ITEM 14) INTO HOLE AS SHOWN AND AND HOLD FOR 2 SECONDS. IMMEDIATELY WIPE AWAY ANY EXCESS ADHESIVE AROUND BASE OF RUBBER PIN.

3. PLACE CLAMP LATCH SLIDER (ITEM 3) ONTO CLAMP LATCH COVER (ITEM 4) ALONG WITH 2 COMPRESSION SPRINGS (ITEM 5) (COMPRESS AND PLACE INTO COVER HOLDING SLIDER IN PLACE). PLACE THIS ASSEMBLY IN AREA PROVIDED IN BACKSIDE OF CLAMP (ASSURE BUTTON SIDE OF SLIDER IS PROTRUDING THRU CLAMP) AND SECURE WITH 2 SCREWS (ITEM 16).

4. ALIGN CLAMP HANDLE (ITEM 1) AND WAVE WASHER (ITEM 17) INTO DOOR PRESSURE PLATE (ITEM 9) BY PLACING ROUNDED BEARING END OF CLAMP HANDLE AND WASHER INTO THE U–SHAPED CUTOUT IN THE FACE OF THE CLEAR PRESSURE PLATE. PRESS FIT THE BRASS CLAMP PIN (ITEM 7) THRU FROM THE OUTSIDE OF THE PLASTIC PRESSURE PLATE, THRU THE HOLE OF THE CLAMP HANDLE, THRU WASHER AND THEN THRU THE OTHER SIDE OF THE PLASTIC UNTIL PIN STOPS AGAINST INSIDE WALL OF PRESSURE PLATE.

5. NEXT PLACE THE LATCH PAW TORSION SPRING (ITEM 12) INTO THE DOOR LATCH PAW (ITEM 11) AS SHOWN ALIGNING THE HOLES OF THE LATCH PAW WITH THAT OF THE SPRING. SLIDE LATCH PAW AND SPRING (COMPRESSING SPRING WITH FINGER) FROM BACKSIDE OF PRESSURE PLATE (ITEM 9) UNTIL HOLES LINE UP WITH THE SIDE WALL. PRESS FIT BRASS PIN (ITEM 10) THRU OUTSIDE WALL GUIDING IT THRU THE LATCH PAW AND TORSION SPRING UNTIL SEATING IT FLUSH AGAINST THE PRESSURE PLATE INSIDE WALL.

6. ONCE THE CLAMP HANDLE AND PAW ARE INSTALLED IN THE PRESSURE PLATE, ROTATE CLAMP OUTWARDS AND UP TO APPROXIMATELY A 45° ANGLE. THE CLAMP HANDLE SHOULD LATCH AGAINST THE PAW AND BE HELD IN PLACE. ALIGN DOOR FRONT (ITEM 8) OVER PRESSURE PLATE AS SHOWN ALIGNING THE 4 BOSSES WITH THIER APPROPRIATE CHANNELS IN THE PRESSURE PLATE. USING 4 #4–40 X 1/4LG. SCREWS (ITEM 13) ATTACH THE DOOR AND PLATE TOGETHER.

7. ONCE DOOR IS IN PLACE, PRESS FOOT OF LATCH PAW FROM BOTTOM SIDE ALLOWING THE CLAMP HANDLE TO ROTATE BACK TO ITS CLOSED AND LOCKED POSITION. INSURE THAT ALL ASSEMBLIES HAVE CLEARANCE AS THE HANDLE ROTATES INTO PLACE.

8. ONCE ASSEMBLY IS FINISHED, APPLY A SMALL AMOUNT OF 2 PART EPOXY TO THE ENDS OF BRASS PINS (ITEM 7 AND 10) TO PREVENT FROM PUSHING OUT DURING USE.

ITEM	PART NO.	QTY.	DESCRIPTION
17	NW06	1	WSHR, WAVE, 18–8SS, .208 ID X .385 OD
16	NS13	2	SCR, #4–40 X 5/16LG. PHMS, SS (316)
15	M044	0.01	LOCKTITE 380, INSTANT ADHESIVE, BLACK
14	IVP1099OP	1	DOOR PIN, OPTIC 3850/3851
13	NS12	4	SCREW, #4–40 X 1/4LG. PHMS, XR–SS316
12	HM16	1	SPRING, TORSION, DOOR LATCH PAW
11	IVP1038	1	PAW, DOOR LATCH
10	HM15	1	PIN, DOOR LATCH PAW
9	IVP1029T	1	PRESSURE PLATE, DOOR, 3850 TAPER
8	IVP1030AP	1	DOOR, FRONT, LATCHING, 3850, PAINTED
7	HM14	1	PIN, CLAMP HANDLE
6	NS01	3	SCREW, #2–56 X 3/16LG. PHMS, XR–SS316
5	HM17	2	SPRING, SPRING ARM COMPRESSION
4	IVP1095	1	CLAMP LATCH, COVER, 3850–3851
3	IVP1094	1	CLAMP LATCH, SLIDER, 3850–3851
2	IVP1068	1	CLAMP CLIP, DOOR
1	IVP1031A	1	CLAMP HANDLE, DOOR, 3850, LATCHED

Rev.	Description	Date
A	ECN 000373	14FEB11

Revision History

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Tolerances unless otherwise noted on dwg.: XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 14FEB11
Eng.: RES Date: 14FEB11
Q.A.: FXC Date: 14FEB11
R.A.: FXC Date: 14FEB11
Mfg.: TWF Date: 14FEB11

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: SUB–ASSEM, FRNT DR 3850, LATCH, OPTIC

Size: C

Part/Dwg. No: AS112OP

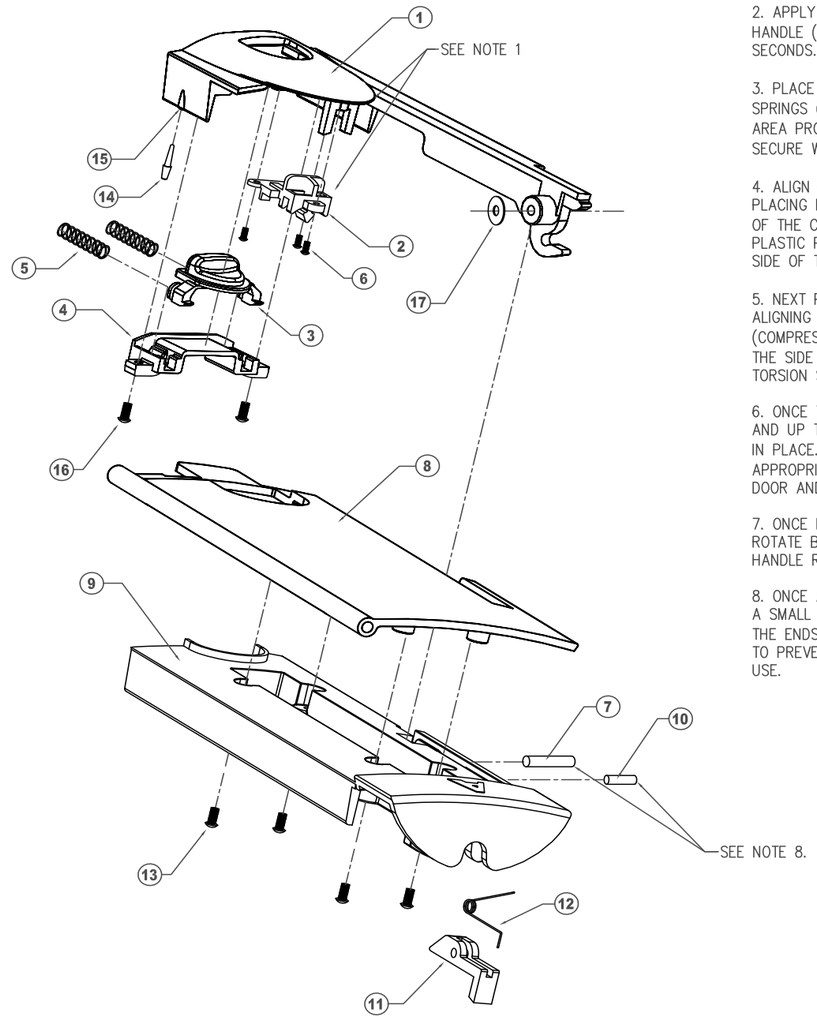
Rev: A

Cad. Scale: NA

Sheet 1 of 1

LF20 Rev. A

Figure 5-28. AS112OP Sub-Assembly, 3850, Door, Latching, Optic (V2)**



ASSEMBLY NOTES:

1. USING 3 #2–56 X 3/16 PAN HD. SCREWS (ITEM 6), ATTACH CLAMP CLIP (ITEM 2) TO THE BACK OF CLAMP HANDLE (ITEM 1) AS SHOWN. INSPECT AND REMOVE ANY SHARP EDGES FROM HANDLE PARABOLA USING FINE GRIT SANDPAPER. DO NOT OVER–TIGHTEN SCREWS.

2. APPLY A COUPLE DROPS OF LOCTITE 380 (BLACK MAX (ITEM 15)) INTO HOLE ON UNDERSIDE OF CLAMP HANDLE (ITEM 1). QUICKLY PRESS RUBBER PIN (ITEM 14) INTO HOLE AS SHOWN AND AND HOLD FOR 2 SECONDS. IMMEDIATELY WIPE AWAY ANY EXCESS ADHESIVE AROUND BASE OF RUBBER PIN.

3. PLACE CLAMP LATCH SLIDER (ITEM 3) ONTO CLAMP LATCH COVER (ITEM 4) ALONG WITH 2 COMPRESSION SPRINGS (ITEM 5) (COMPRESS AND PLACE INTO COVER HOLDING SLIDER IN PLACE). PLACE THIS ASSEMBLY IN AREA PROVIDED IN BACKSIDE OF CLAMP (ASSURE BUTTON SIDE OF SLIDER IS PROTRUDING THRU CLAMP) AND SECURE WITH 2 SCREWS (ITEM 16).

4. ALIGN CLAMP HANDLE (ITEM 1) AND WAVE WASHER (ITEM 17) INTO DOOR PRESSURE PLATE (ITEM 9) BY PLACING ROUNDED BEARING END OF CLAMP HANDLE AND WASHER INTO THE U–SHAPED CUTOUT IN THE FACE OF THE CLEAR PRESSURE PLATE. PRESS FIT THE BRASS CLAMP PIN (ITEM 7) THRU FROM THE OUTSIDE OF THE PLASTIC PRESSURE PLATE, THRU THE HOLE OF THE CLAMP HANDLE, THRU WASHER AND THEN THRU THE OTHER SIDE OF THE PLASTIC UNTIL PIN STOPS AGAINST INSIDE WALL OF PRESSURE PLATE.

5. NEXT PLACE THE LATCH PAW TORSION SPRING (ITEM 12) INTO THE DOOR LATCH PAW (ITEM 11) AS SHOWN ALIGNING THE HOLES OF THE LATCH PAW WITH THAT OF THE SPRING. SLIDE LATCH PAW AND SPRING (COMPRESSING SPRING WITH FINGER) FROM BACKSIDE OF PRESSURE PLATE (ITEM 9) UNTIL HOLES LINE UP WITH THE SIDE WALL. PRESS FIT BRASS PIN (ITEM 10) THRU OUTSIDE WALL GUIDING IT THRU THE LATCH PAW AND TORSION SPRING UNTIL SEATING IT FLUSH AGAINST THE PRESSURE PLATE INSIDE WALL.

6. ONCE THE CLAMP HANDLE AND PAW ARE INSTALLED IN THE PRESSURE PLATE, ROTATE CLAMP OUTWARDS AND UP TO APPROXIMATELY A 45° ANGLE. THE CLAMP HANDLE SHOULD LATCH AGAINST THE PAW AND BE HELD IN PLACE. ALIGN DOOR FRONT (ITEM 8) OVER PRESSURE PLATE AS SHOWN ALIGNING THE 4 BOSSES WITH THIER APPROPRIATE CHANNELS IN THE PRESSURE PLATE. USING 4 #4–40 X 1/4LG. SCREWS (ITEM 13) ATTACH THE DOOR AND PLATE TOGETHER.

7. ONCE DOOR IS IN PLACE, PRESS FOOT OF LATCH PAW FROM BOTTOM SIDE ALLOWING THE CLAMP HANDLE TO ROTATE BACK TO ITS CLOSED AND LOCKED POSITION. INSURE THAT ALL ASSEMBLIES HAVE CLEARANCE AS THE HANDLE ROTATES INTO PLACE.

8. ONCE ASSEMBLY IS FINISHED, APPLY A SMALL AMOUNT OF 2 PART EPOXY TO THE ENDS OF BRASS PINS (ITEM 7 AND 10) TO PREVENT FROM PUSHING OUT DURING USE.

ITEM	PART NO.	QTY.	DESCRIPTION
17	NW06	1	WSHR, WAVE, 18–8SS, .208 ID X .385 OD
16	NS13	2	SCR, #4–40 X 5/16LG. PHMS, SS (316)
15	M044	0.01	LOCKTITE 380, INSTANT ADHESIVE, BLACK
14	IVP10990P	1	DOOR PIN, OPTIC 3850/3851
13	NS12	4	SCREW, #4–40 X 1/4LG. PHMS, XR–SS316
12	HM16	1	SPRING, TORSION, DOOR LATCH PAW
11	IVP1038	1	PAW, DOOR LATCH
10	HM15	1	PIN, DOOR LATCH PAW
9	IVP1029T	1	PRESSURE PLATE, DOOR, 3850 TAPER
8	IVP1030A	1	DOOR, FRONT, LATCHING, 3860, WHT
7	HM14	1	PIN, CLAMP HANDLE
6	NS01	3	SCREW, #2–56 X 3/16LG. PHMS, XR–SS316
5	HM17	2	SPRING, SPRING ARM COMPRESSION
4	IVP1095	1	CLAMP LATCH, COVER, 3850–3851
3	IVP1094	1	CLAMP LATCH, SLIDER, 3850–3851
2	IVP1068	1	CLAMP CLIP, DOOR
1	IVP1031A	1	CLAMP HANDLE, DOOR, 3850, LATCHED

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Rev.	Description	Date
B	ECN 000488	18JUN13
A	ECN 000373	14FEB11

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN	Date: 14FEB11	
Eng.: RES	Date: 18JUN13	
Q.A.: FXC	Date: 18JUN13	
R.A.: FXC	Date: 18JUN13	
Mfg.: TWF	Date: 18JUN13	

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: SUB–ASSEM, FRNT DR, 3850/60, LTCH, OPTIC

Size: C

Part/Dwg. No: AS112AOP

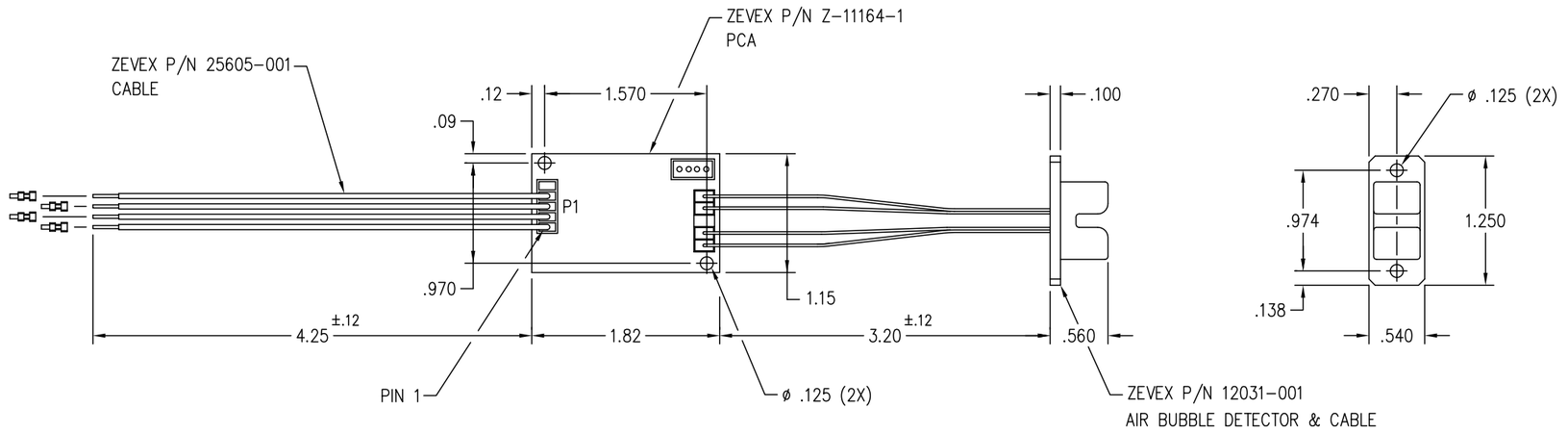
Rev: B

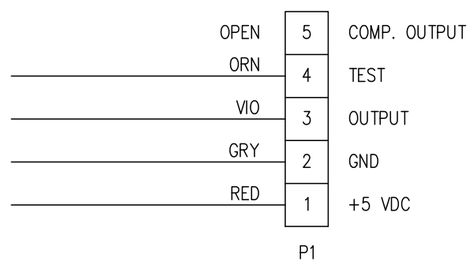
Cad. Scale: NA

Sheet 1 of 1

LF20 Rev. A

Figure 5-29. AS112AOP Sub-Assembly, 3850, Door, Latching, Optic (V2)***





P1 WIRING DIAGRAM

APPROVED MANUFACTURERS:	PART NUMBER:
ZEVEX, INC.	25604-001

NOTES

1. PART TO BE SUPPLIED IN A 6.00 X 7.00 SEALED ANTI-STATIC BAG. BAG TO BE HAVE A LABEL WITH THE FOLLOWING INFORMATION; "Iradimed", IRI PART NUMBER, CURRENT REVISION, DESCRIPTION, SUPPLIER NAME, PART NUMBER, & SUPPLIER REV. LEVEL, COUNTRY OF MANUFACTURE, AND SERIAL NUMBER.
2. SUPPLIER TO PROVIDE A CERTIFICATE OF COMPLIANCE WITH EACH SHIPMENT.

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Rev.	Description	Date
0	PROTOTYPE	30MAY05

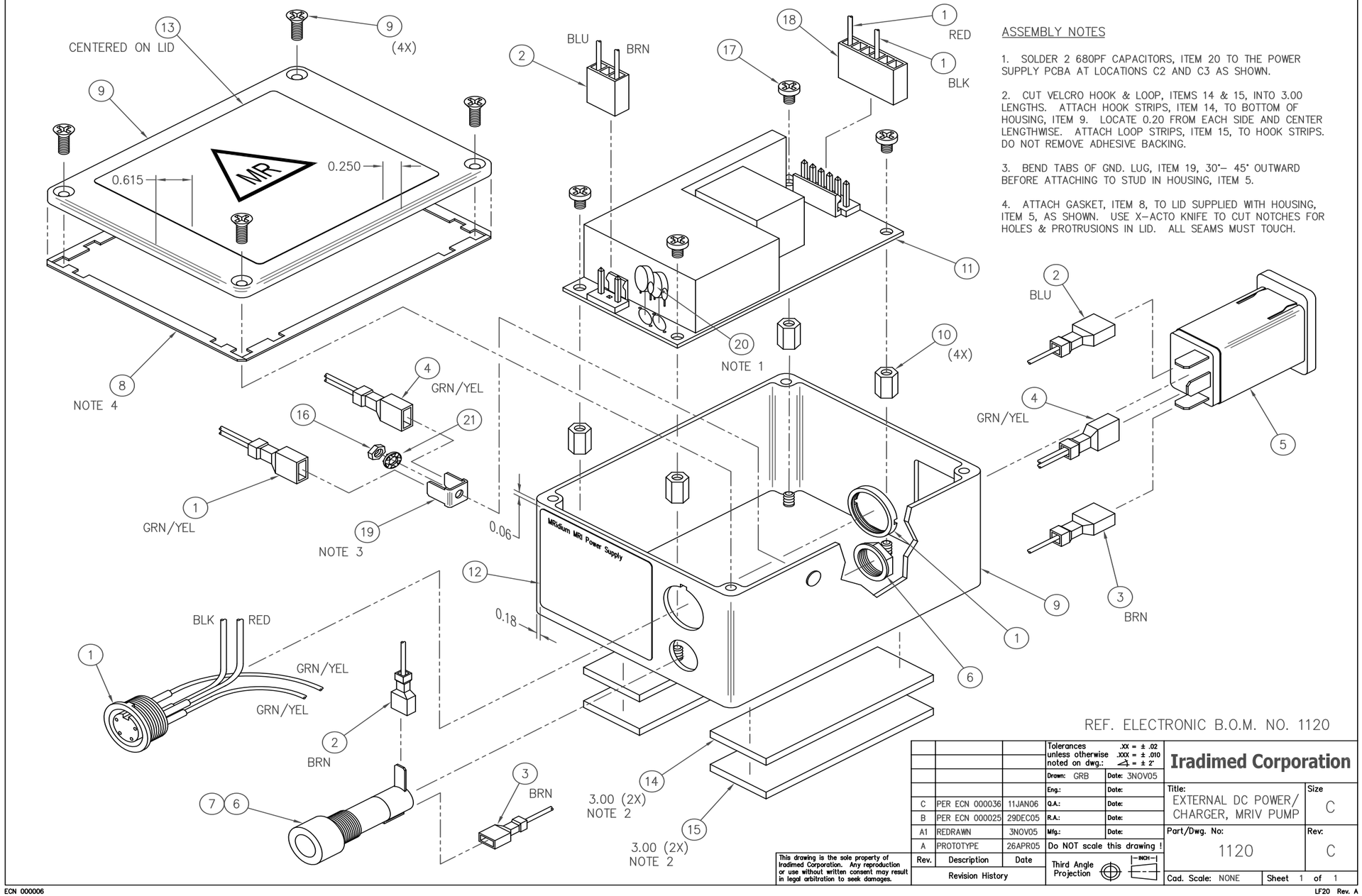
Revision History

CAD Scale: NONE
Tols.: .XX ±.02, .XXX ±.010, Angles ± 2°
Drawn: GRB
Date: 30MAY05
Eng.: Date:
Q.A.: Date:
R.A.: Date:
Mfg.: Date:
Do NOT scale this drawing
Third Angle Projection — INCH

Iradimed Corporation

Title: SENSOR, AIR BUBBLE DETECTOR
Size: B
Part/Dwg. No: HE09
Rev: 0

Figure 5-30. HE09 Sensor, Air Bubble Detector



ASSEMBLY NOTES

1. SOLDER 2 680PF CAPACITORS, ITEM 20 TO THE POWER SUPPLY PCBA AT LOCATIONS C2 AND C3 AS SHOWN.

2. CUT VELCRO HOOK & LOOP, ITEMS 14 & 15, INTO 3.00 LENGTHS. ATTACH HOOK STRIPS, ITEM 14, TO BOTTOM OF HOUSING, ITEM 9. LOCATE 0.20 FROM EACH SIDE AND CENTER LENGTHWISE. ATTACH LOOP STRIPS, ITEM 15, TO HOOK STRIPS. DO NOT REMOVE ADHESIVE BACKING.

3. BEND TABS OF GND. LUG, ITEM 19, 30°– 45° OUTWARD BEFORE ATTACHING TO STUD IN HOUSING, ITEM 5.

4. ATTACH GASKET, ITEM 8, TO LID SUPPLIED WITH HOUSING, ITEM 5, AS SHOWN. USE X–ACTO KNIFE TO CUT NOTCHES FOR HOLES & PROTRUSIONS IN LID. ALL SEAMS MUST TOUCH.

REF. ELECTRONIC B.O.M. NO. 1120

Rev.	Description	Date
C	PER ECN 000036	11JAN06
B	PER ECN 000025	29DEC05
A1	REDRAWN	3NOV05
A	PROTOTYPE	26APR05

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: GRB Date: 3NOV05

Eng.: Date:

Q.A.: Date:

R.A.: Date:

Mfg.: Date:

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: EXTERNAL DC POWER/ CHARGER, MRIV PUMP

Size: C

Part/Dwg. No: 1120

Rev: C

Cad. Scale: NONE

Sheet 1 of 1

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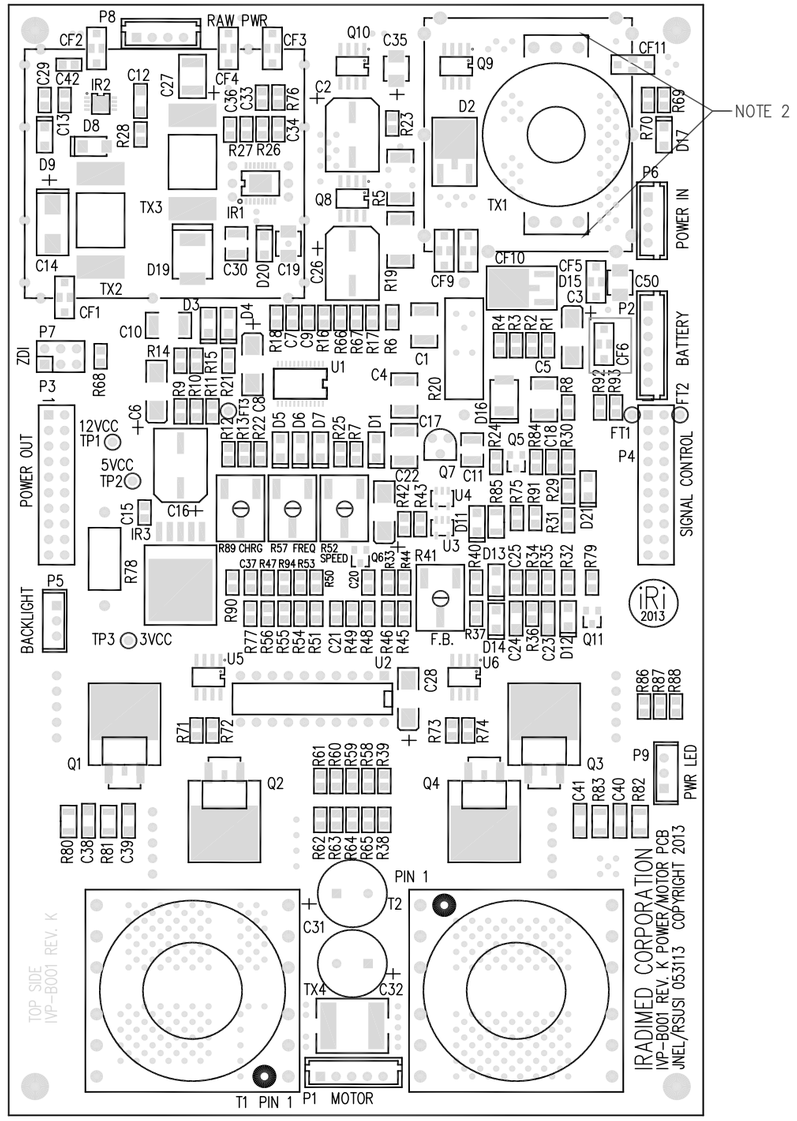
ECN 000006

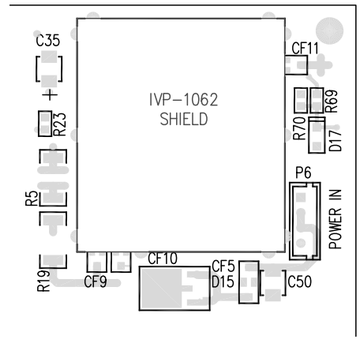
LF20 Rev. A

Figure 5-31. 1120 MRIV Pump External DC Power/Charger

Figure 5-32. 1120 Bill of Materials (Parts List)

Dwg Item	Component ID	Required	Description
0001	AC13	1	CABLE, DC OUTPUT, 1120
0002	AC14	1	CABLE, AC TO POWER SUPPLY, 1120
0003	AC15	1	CABLE, AC FILTER TO FUSE, 1120
0004	AC21	1	CABLE, AC FILTER TO GND., 1120
0005	HE05	1	CONN., AC PWR. FILTER, SCHURTER 693-5110
0006	HE06	1	HOLDER, FUSE, LITTELFUSE H3453HS1
0007	HE14	1	FUSE, 1A, BK/AGC-1SloBlo/ 0313001.HXP
0008	HG07	1.2	GASKET, 0.02 X 0.157, FAB/FOAM, PSA
0009	HM05	1	HOUSING, 1120 POWER SUPPLY
0010	HM07	4	STNDF., HEX, #6-32, KEYSTONE 534-1451B
0011	IVP2102	1	XPiQ 40 WATT, 18VDC MEDICAL SUPPLY ECM40
0012	LB2006	1	LABEL, MODEL NO., 1120
0013	LB2007	1	LABEL, MR WARNING, 1120
0014	M006	6”	HOOK, VELCRO, 1.0, PRS.SENS, SJ355210-ND
0015	M007	6”	LOOP, VELCRO, 1.0, PRS.SENS, SJ355110-ND
0016	N005	1	NUT, HEX, #6-32 NAR. SERIES-SS316
0017	NS20	4	SCREW, #6-32 X 3/16LG. PHMS, XR-SS316
0018	PA19	1	CONN, 6P HSG, 0.156, MOLEX 538-09-50-3061
0019	PA42	1	GND, LUG, DUAL #6 X 0.25, KYSTN. 534-1257
0020	C601	2	CAP 680PF 250V Y2/X1 ECKATS681MB
0021	NW01	1	WASHER, INT LOCK, #6 SS, 6INLWSS





NOTES:

1. INSTALL CONNECTORS AT LOCATIONS P3 AND P4 ON BOARD FROM THE BACKSIDE.

2. AFTER FLOW SOLDER, FOLD IVP–1062 METAL SHIELD ON SCORE LINES AND INSTALL OVER TX1, D2, Q9 LOCATION ENSURING CF9, CF10 AND CF11 FILTERS ARE IN CUTOUTS OF SHIELD AS SHOWN ABOVE. BE SURE LEADS ON TX1 ARE TRIMMED DOWN TO AVOID SHORTING TO INSIDE OF METAL SHIELD.

3. ASSEMBLY WILL USE BLANK PCB IVPB001 REV. K. USE IRADIMED BOM IVPAB001–Y FOR LIST OF ITEM NUMBERS AND COMPONENTS.

4. ASSEMBLY MUST MEET IPC–610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

Rev.	Description	Date
Y	ECN 000491	28JUN13
X	ECN 000485	31MAY13
W	ECN 000419	12JUN12
V	ECN 000284	12JAN10
U	ECN 000250	06MAY08
T	ECN 000203	04MAY07
S	ECN 000195	09APR07

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 19JAN05
Eng.: RES Date: 28JUN13
Q.A.: FXC Date: 28JUN13
R.A.: FXC Date: 28JUN13
Mfg.: TWF Date: 28JUN13

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: ASSEMBLY: POWER/MOTOR PCB 3850/60 MRidium

Size: C

Part/Dwg. No: IVPAB001

Rev: Y

Cad. Scale: 2:1 Sheet 1 of 1

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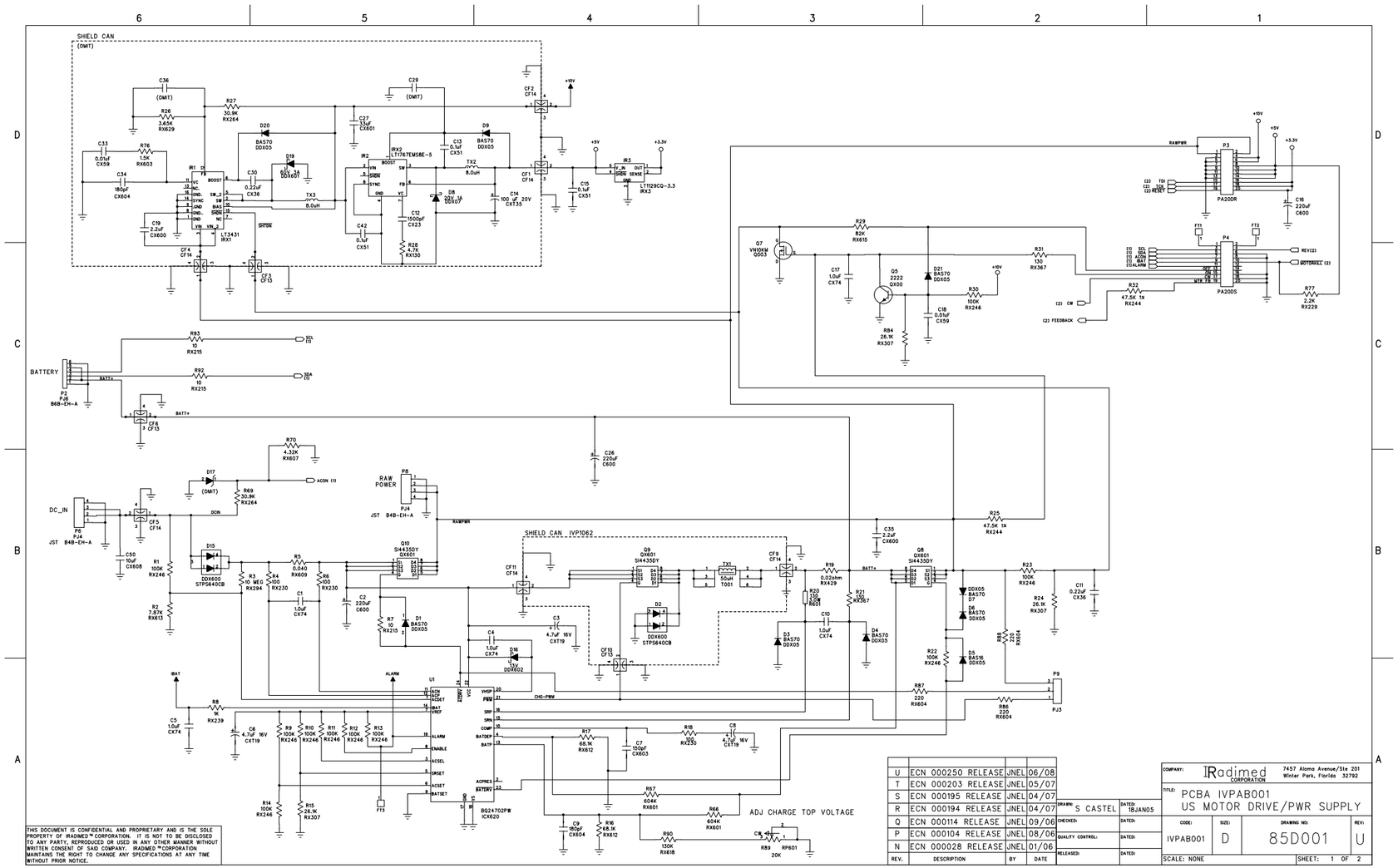
LF20 Rev. A

Figure 5-33. IVPAB001 PWR/Motor PCB Assembly


SHIELD CAN
(OMIT)
SHIELD CAN IVP1062
BATTERY
DC_IN
RAW POWER
ADJ CHARGE TOP VOLTAGE
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REV. DESCRIPTION BY DATE
U ECN 000250 RELEASE JNEL 06/08
T ECN 000203 RELEASE JNEL 05/07
S ECN 000195 RELEASE JNEL 04/07
R ECN 000194 RELEASE JNEL 04/07
Q ECN 000114 RELEASE JNEL 09/06
P ECN 000104 RELEASE JNEL 08/06
N ECN 000028 RELEASE JNEL 01/06
DRAWN: S CASTEL DATED: 18JAN05
CHECKED: DATED:
QUALITY CONTROL: DATED:
RELEASED: DATED:
COMPANY: IRadimed CORPORATION 7457 Aloma Avenue/Ste 201 Winter Park, Florida 32792
TITLE: PCBA IVPAB001 US MOTOR DRIVE/PWR SUPPLY
CODE: IVPAB001 SIZE: D DRAWING NO: 85D001 REV: U
SCALE: NONE SHEET: 1 OF 2

Figure 5-34. IVPAB001 (85D001) PWR/Motor PCB Assembly Schematic Sheet 1 of 2

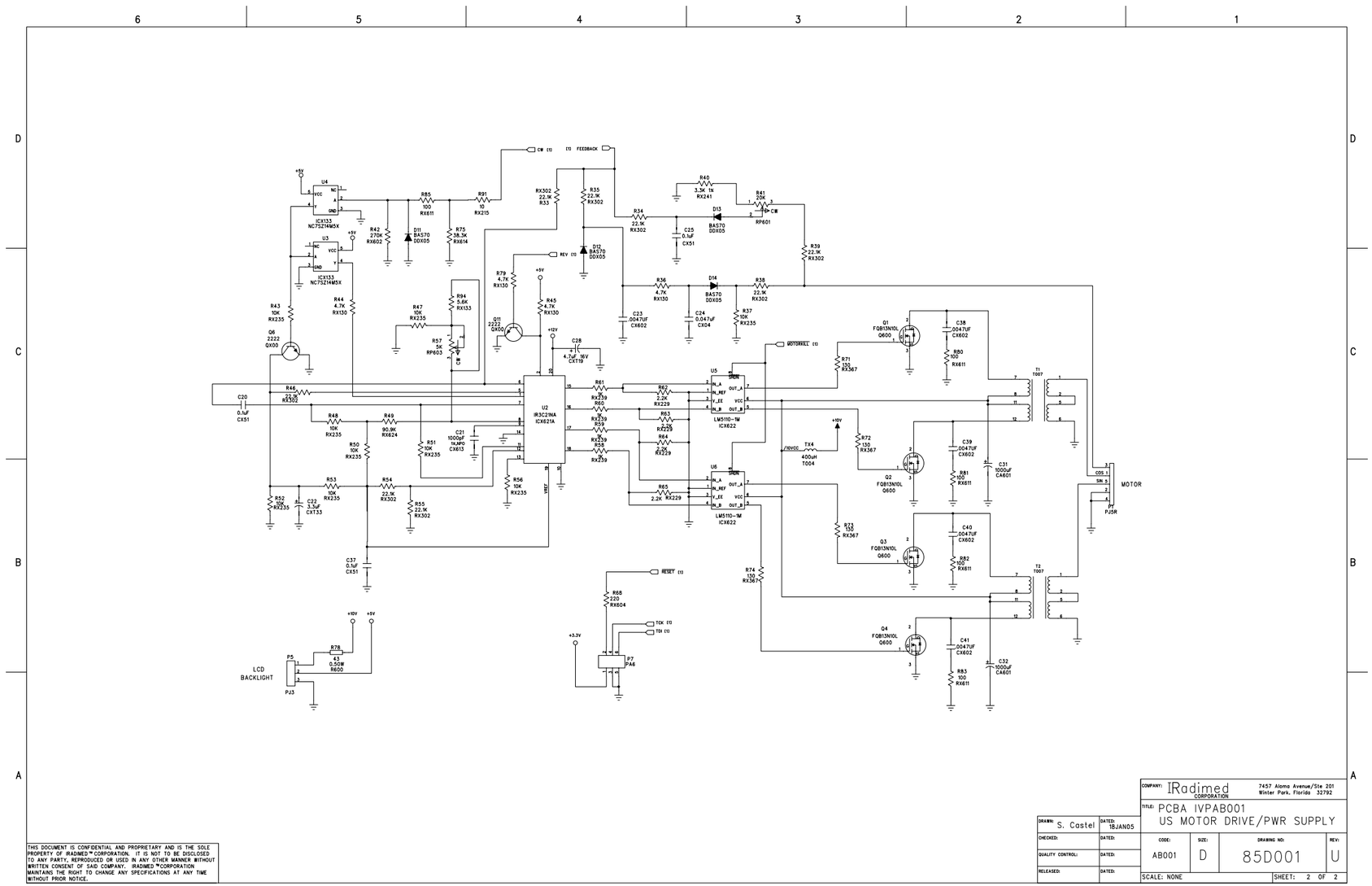
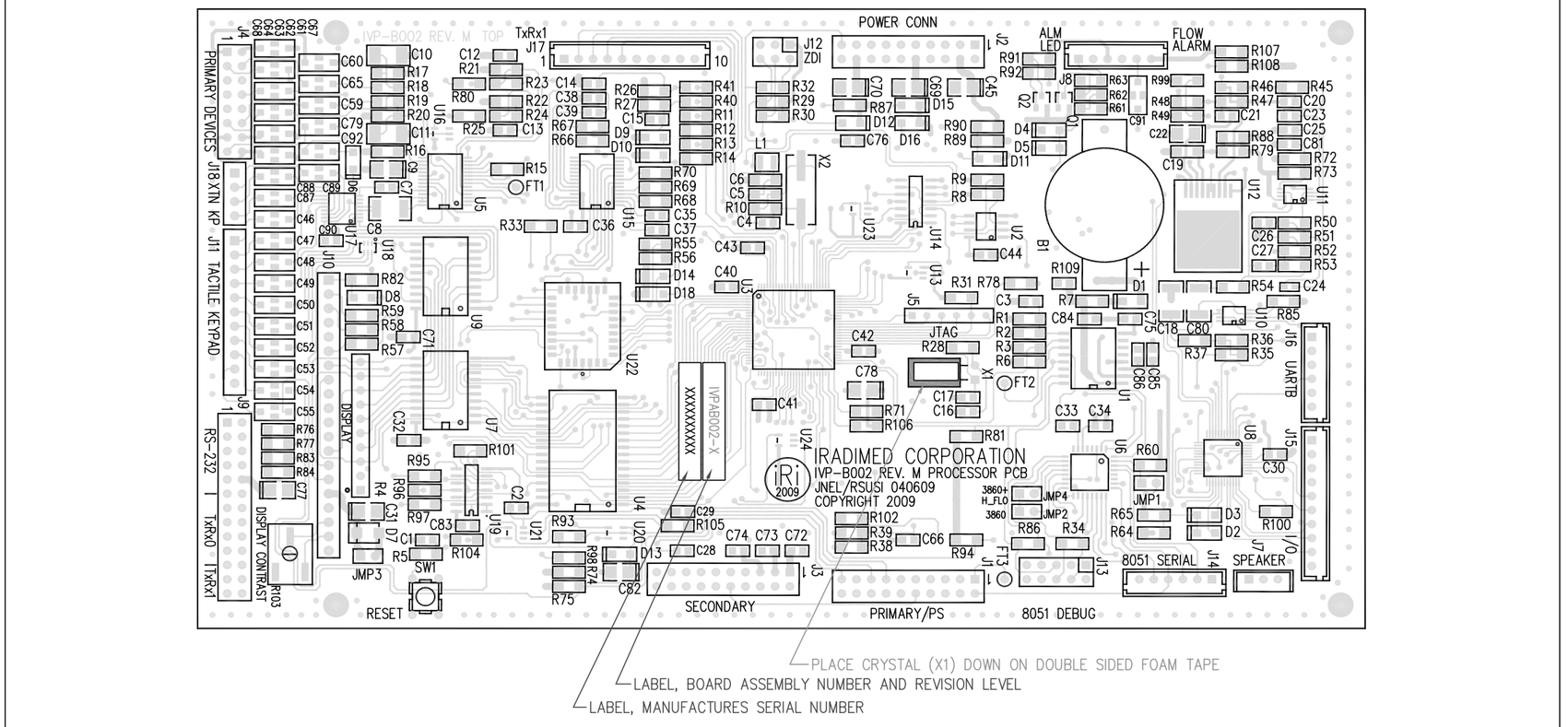


Figure 5-35. IVPAB001 (85D001) PWR/Motor PCB Assembly Schematic Sheet 2 of 2



NOTES:

1. INSTALL CONNECTOR AT LOCATION J10 FROM THE BACKSIDE OF BOARD.

2. ASSEMBLY WILL USE BLANK PCB IVPB002 REV. M. USE IRADIMED BOM IVPAB002-X FOR LIST OF ITEM NUMBERS AND COMPONENTS.

3. PCBA TO BE SUPPLIED WITH SOFTWARE INSTALLED. SEE SI001 FOR PROGRAMMING INSTRUCTIONS.

4. ASSEMBLY MUST MEET IPC-610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

Rev.	Description	Date
X	ECN 000489	24JUN13
W	ECN 000284	12JAN10
V	ECN 000277	10FEB09
U	ECN 000257	22JUL08
T	ECN 000218	18SEP07
S	ECN 000145	25OCT06
R	ECN 000118	11AUG06
P	ECN 000104	22JUN06

Revision History

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Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Third Angle Projection — INCH

Iradimed Corporation

Drawn: JRN	Date: 120CT05
Eng.: RES	Date: 24JUN13
Q.A.: FXC	Date: 24JUN13
R.A.: FXC	Date: 24JUN13
Mfg.: TWF	Date: 24JUN13
Do NOT scale this drawing !	

Title: ASSEMBLY: PROCESSOR PCB 3850/60 MRidium

Size: C

Part/Dwg. No: IVPAB002

Rev: X

Cad. Scale: 2:1

Sheet 1 of 1

LF20 Rev. A

Figure 5-36. IVPAB002 Processor PCB Assembly

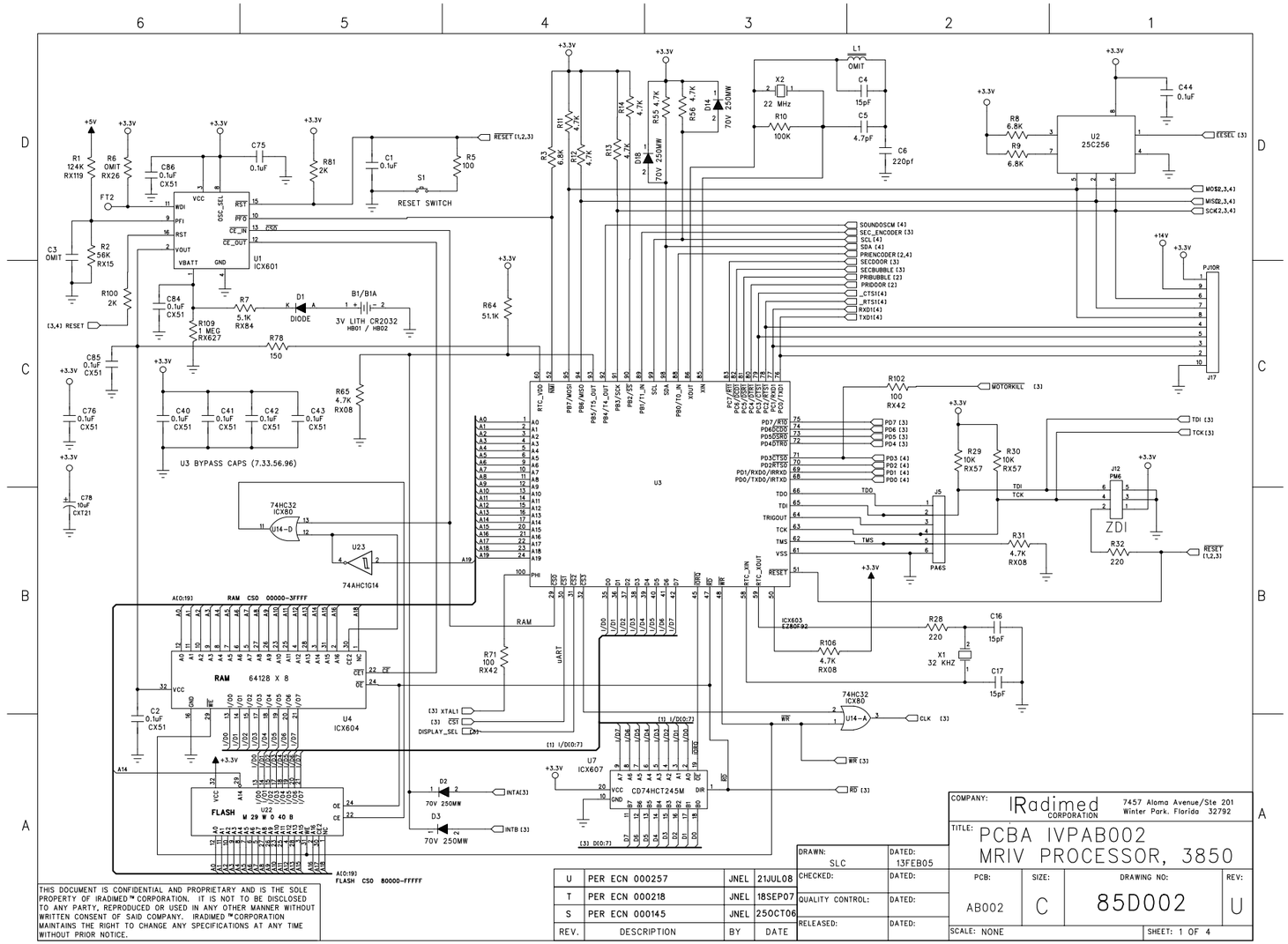


Figure 5-37. IVPAB002 (85D002) Processor PCB Assembly Schematic Sheet 1 of 4

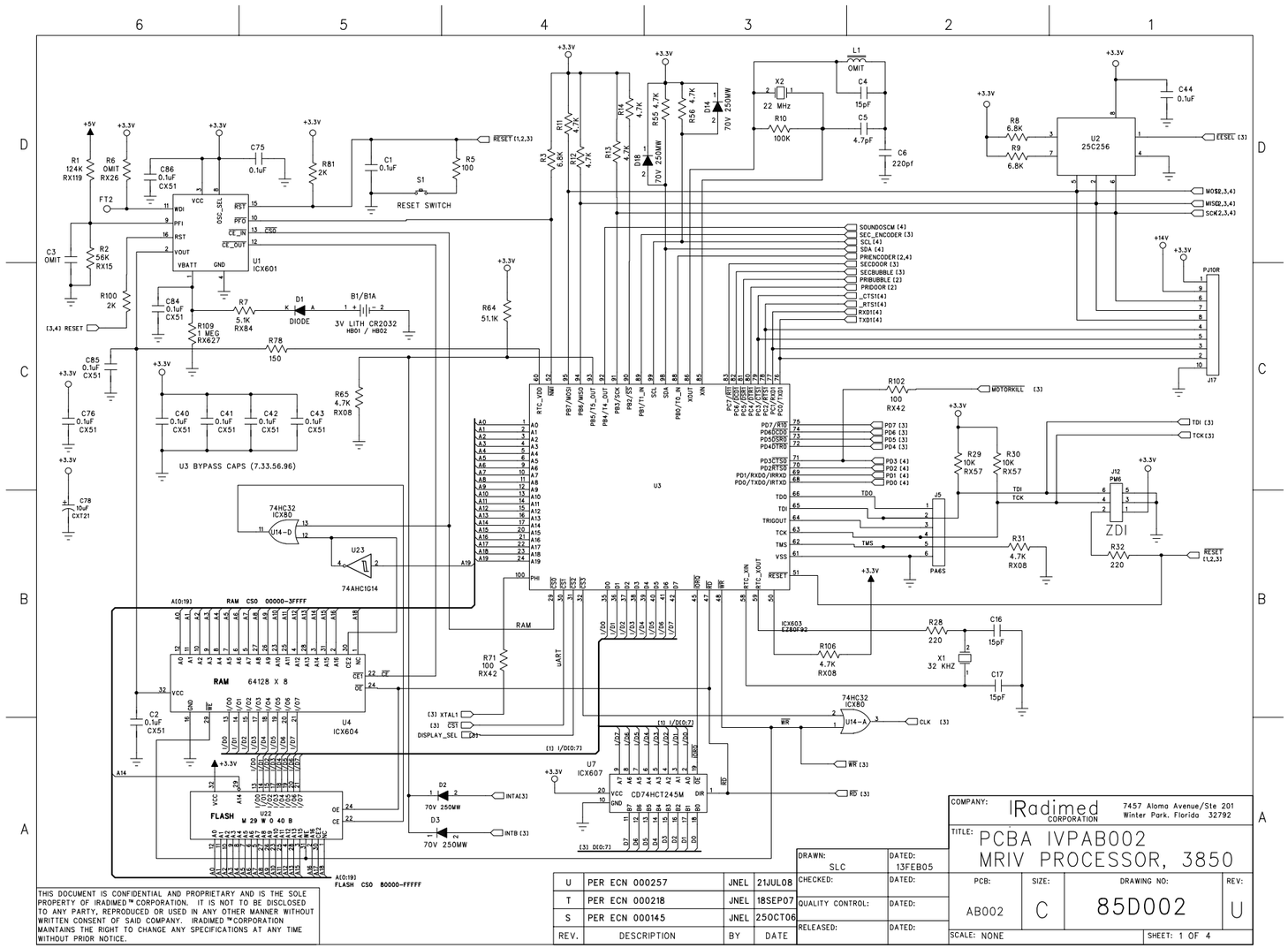


Figure 5-38. IVPAB002 (85D002) Processor PCB Assembly Schematic Sheet 2 of 4

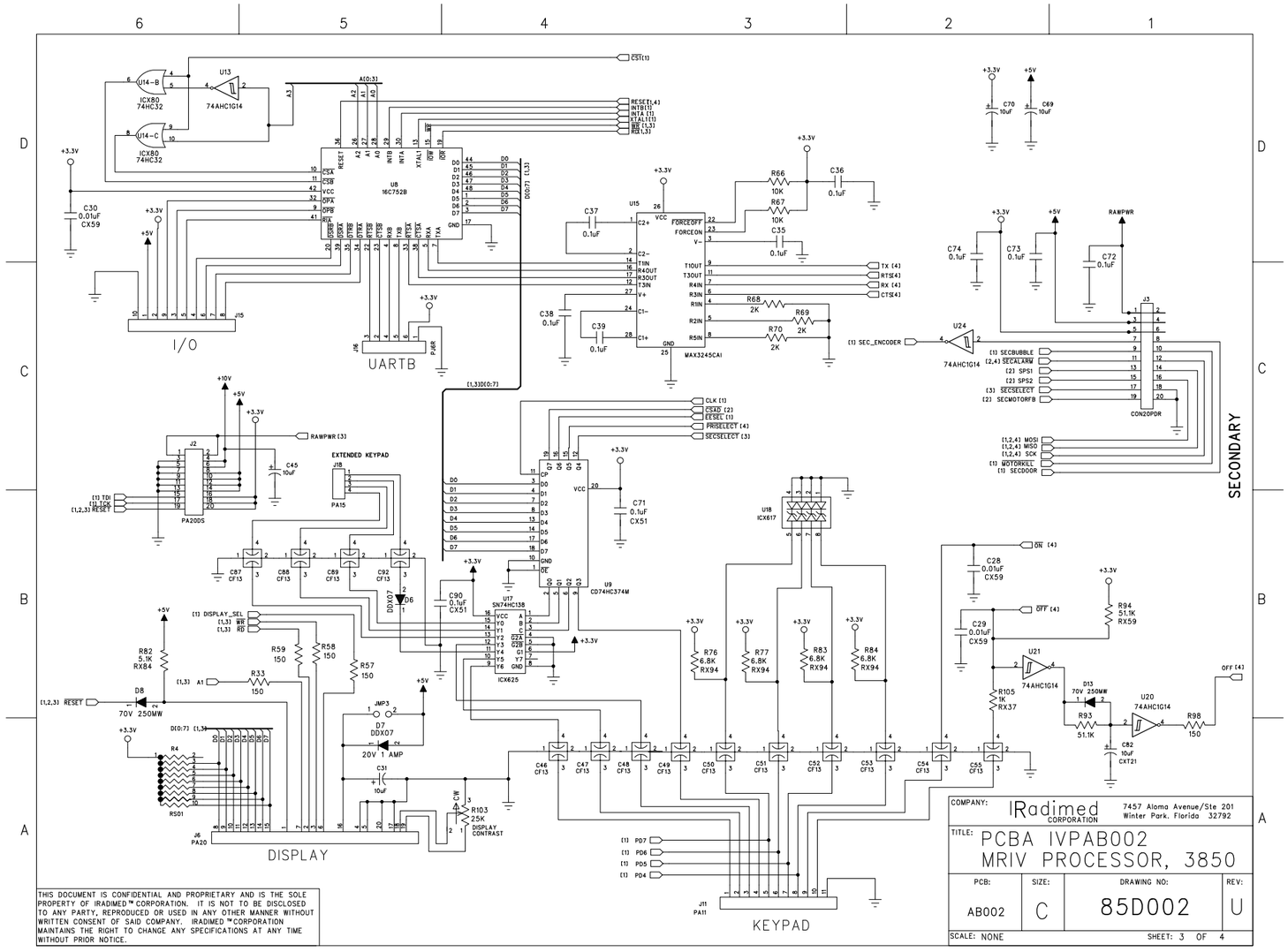


Figure 5-39. IVPAB002 (85D002) Processor PCB Assembly Schematic Sheet 3 of 4

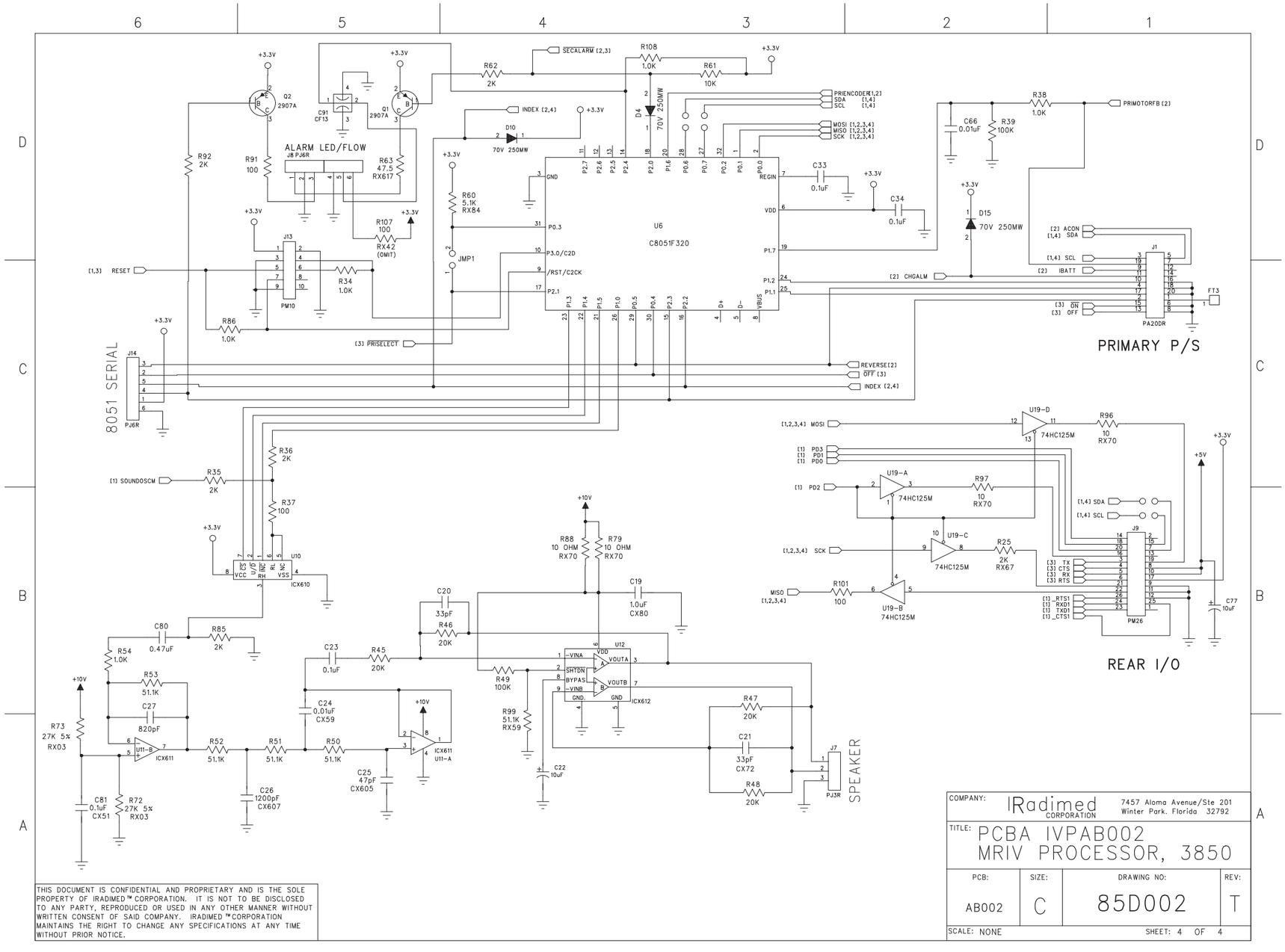
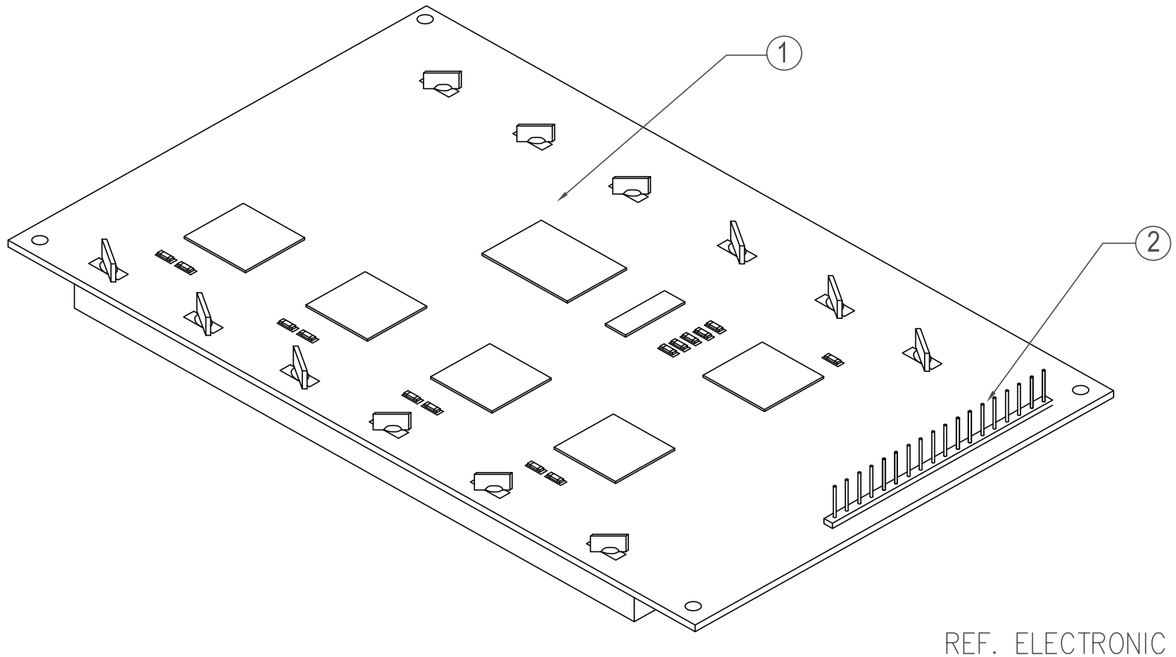


Figure 5-40. IVPAB002 (85D002) Processor PCB Assembly Schematic Sheet 4 of 4



REF. ELECTRONIC B.O.M. AS114

NOTES:

1. INSTALL AND SOLDER CONNECTOR PA20S IN PLACE ON COMPONENT SIDE OF IVP1115 AS SHOWN.

2. CLEAN, REBAG IN STATIC BAG AND ROUTE TO INSPECTION.

ITEM	PART NO.	QTY.	DESCRIPTION
2	PA20S	1	CONN, 20P HDR, SAMTEC TSW-120-07-G-S
1	IVP1115	1	DISPLAY, LCD W/ BACKLIGHT

Rev.	Description	Date
A	PER ECN 000181	16JAN07

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± --- .XXX = ± --- ∠ = ± ---

Drawn: JRN Date: 16JAN07
Eng.: GRB Date: 31JUL06
Q.A.: FXC Date: 31JUL06
R.A.: FXC Date: 31JUL06
Mfg.: TWF Date: 31JUL06

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: SUB-ASSEMBLY, LCD DISPLAY PCBA

Size: B

Part/Dwg. No: AS114

Rev: A

Cad. Scale: NONE

Sheet 1 of 1

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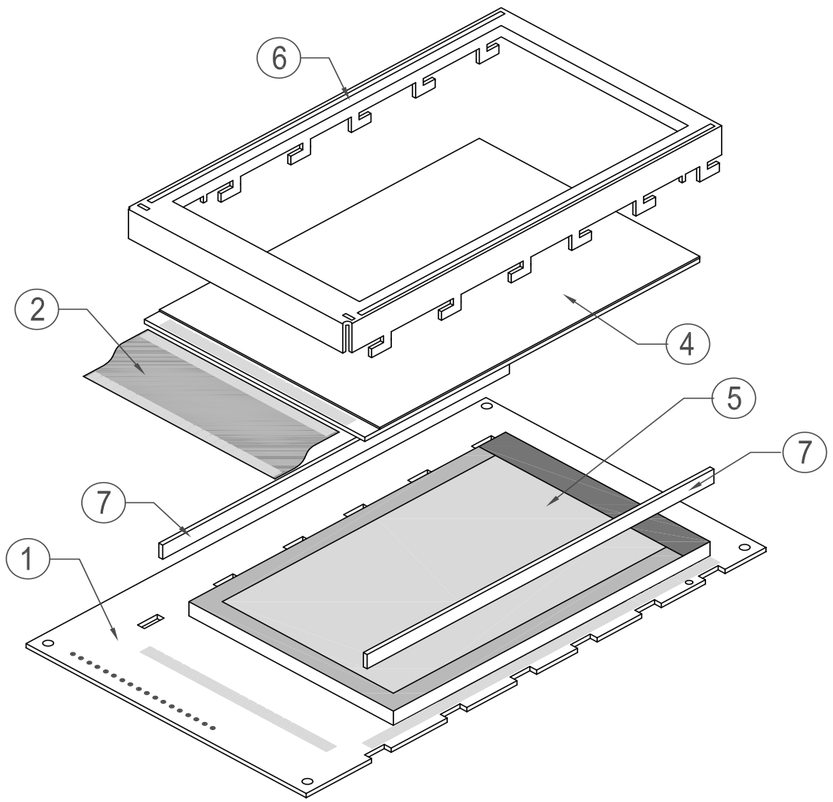
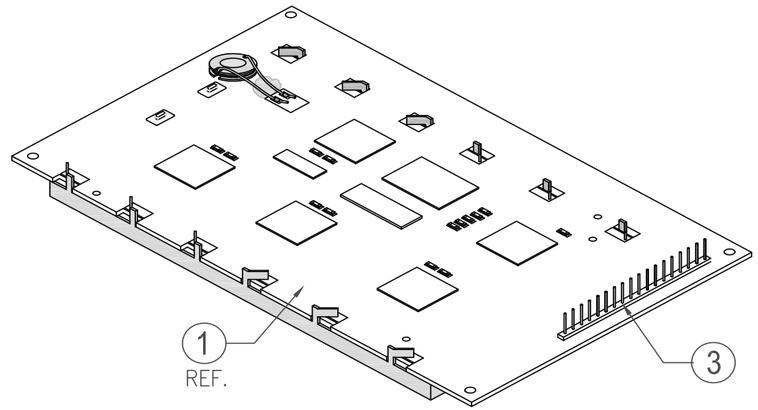
LF19 Rev. A

Figure 5-41. AS114 LCD Display Assembly





NOTES:

1. USING FIXTURE (TF17) ASSEMBLE CONDUCTIVE FLEX (ITEM 2) TO LCD GLASS (ITEM 4) USING HEAT SEAL MACHINE. ONCE BOND IS ACHIEVED, PLACE PCBA (ITEM 1) IN SECOND FIXTURE PARTS DOWN, LAY LCD GLASS WITH FLEX AGAINST BACK POSITIONED IN FIXTURE AND LOCK DOWN. NEXT, HEAT BOND FLEX TO GOLD FINGERS ON PCBA USING SAME TECHNIQUE WITH HEAT SEALER AS BONDING THE GLASS.

2. ASSEMBLE BACKLIGHT (ITEM 5) TO PCBA WHERE SHOWN BY SOLDERING 2 TABS IN PLACE ON PCBA. LAY 2 ZEBRA STRIPS (ITEM 7) ALONG SIDE OF LCD BACKLIGHT AS SHOWN BEING SURE TO COMPLETELY COVER GOLD FINGERS. FLIP LCD BACK OVER TO LAY ON TOP OF BACKLIGHT AND ZEBRA STRIPS.

3. ENCASE ENTIRE ASSEMBLY USING LCD BEZEL (ITEM 6) ALIGNING BOARD CUTOUTS AND PIN POSITIONERS THRU BOARD. BEND CAPTIVE LEGS AS SHOWN ON BACKSIDE OF PCB TO HOLD ASSEMBLY IN PLACE. SPOT SOLDER EACH TAB TO PADS ON PCBA. ROUTE ASSEMBLY TO DISPLAY TEST.

4. SOLDER 20 PIN SINGLE ROW HEADER (ITEM 3) TO BACKSIDE OF PCBA IN LOCATION I/O.

REF. ELECTRONIC B.O.M. AS114A REV. B

ITEM	PART NO.	QTY.	DESCRIPTION
7	HE32	2	CONN, ZEBRA, LCD, 146X6,2X3MM, .05 PITCH
6	IVP1115C	1	DISPLAY, LCD, ALUM. MOUNTING BEZEL
5	IVP1115B	1	DISPLAY, LCD BACKLIGHT, LED
4	IVP1115A	1	DISPLAY, LCD 240X128 W/POLAR, GLASS
3	PA20S	1	CONN, 20P HDR, SAMTEC TSW-120-07-G-S
2	B051	1	CONDUCTIVE FLEX CONNECTOR, 128 X 0.5MM
1	IVPAB053	1	PCBA, LCD DISPLAY DRIVER, 3850/60

Rev.	Description	Date
B	PER ECN 000477	05MAY13
A	PER ECN 000475	18APR13

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± --- .XXX = ± --- ∠ = ± ---

Drawn: JRN Date: 18APR13
Eng.: GRB Date: 05MAY13
Q.A.: FXC Date: 05MAY13
R.A.: FXC Date: 05MAY13
Mfg.: TWF Date: 05MAY13

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: SUB-ASSEMBLY, LCD DISPLAY PCBA
Size: B
Part/Dwg. No: AS114A
Rev: B
Cad. Scale: NONE
Sheet 1 of 1

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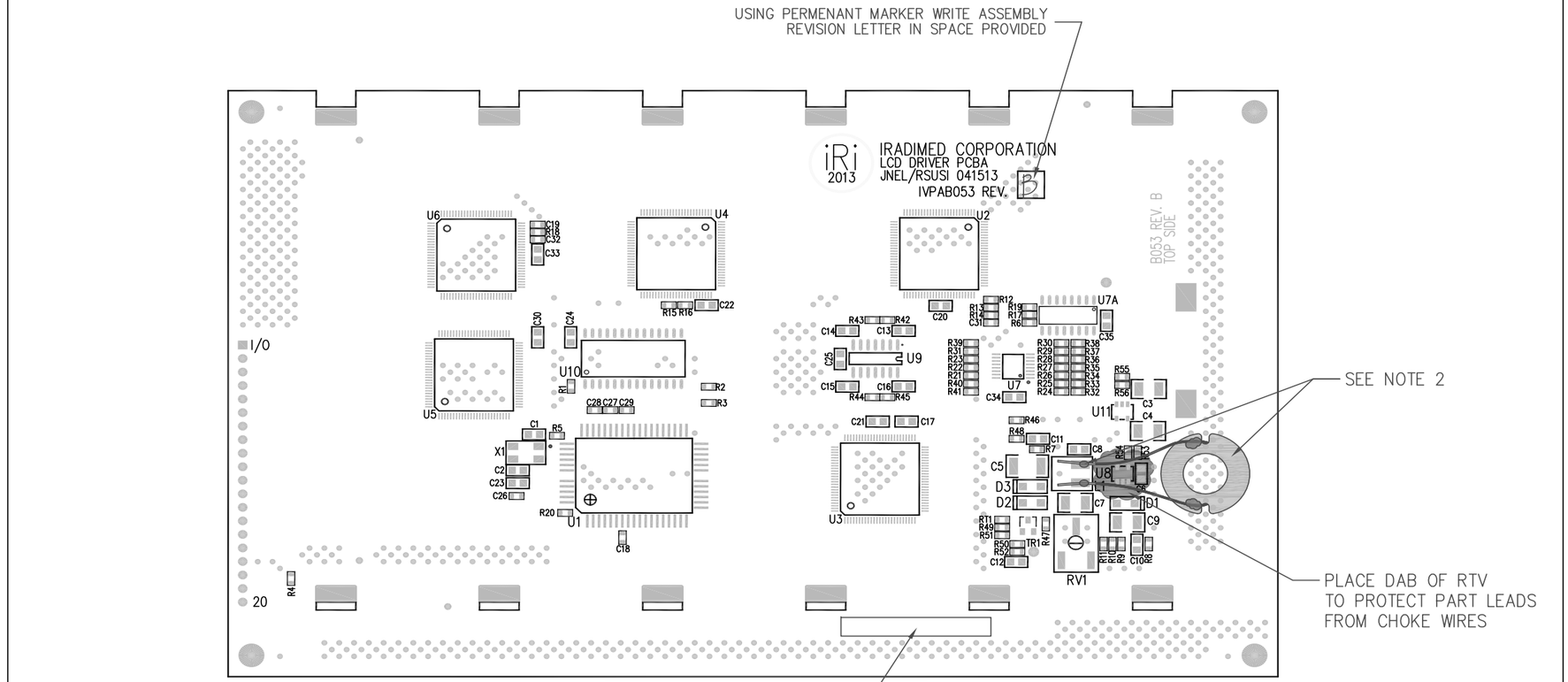
LF20 Rev. A

Figure 5-42. AS114A LCD Display Assembly



NOTES:

1. ASSEMBLY WILL USE BLANK PCB IVPB053 REV. B. USE IRADIMED BOM IVPAB053–B FOR LIST OF ITEM NUMBERS AND COMPONENTS.

2. GLUE DOWN L1 TO PCB AS SHOWN USING LOCKTITE 401. SOLDER LEADS OF CHOKE (L1) TO TOP OF PADS (DO NOT RUN THRU PCB).

3. ASSEMBLY MUST MEET IPC–610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

Rev.	Description	Date
B	ECN 000477	18APR13
A	ECN 000475	10APR13

Revision History

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Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn:	JRN	Date: 10APR13
Eng.:	RES	Date: 18APR13
Q.A.:	FXC	Date: 18APR13
R.A.:	FXC	Date: 18APR13
Mfg.:	TWF	Date: 18APR13

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: ASSEMBLY: LCD DRIVER PCBA 3850/60 2460 SERIES

Size: C

Part/Dwg. No: IVPAB053

Rev: B

Cad. Scale: 2=1

Sheet 1 of 1

LF20 Rev. A

Figure 5-43. IVPAB053 LCD Display PCBA Assembly

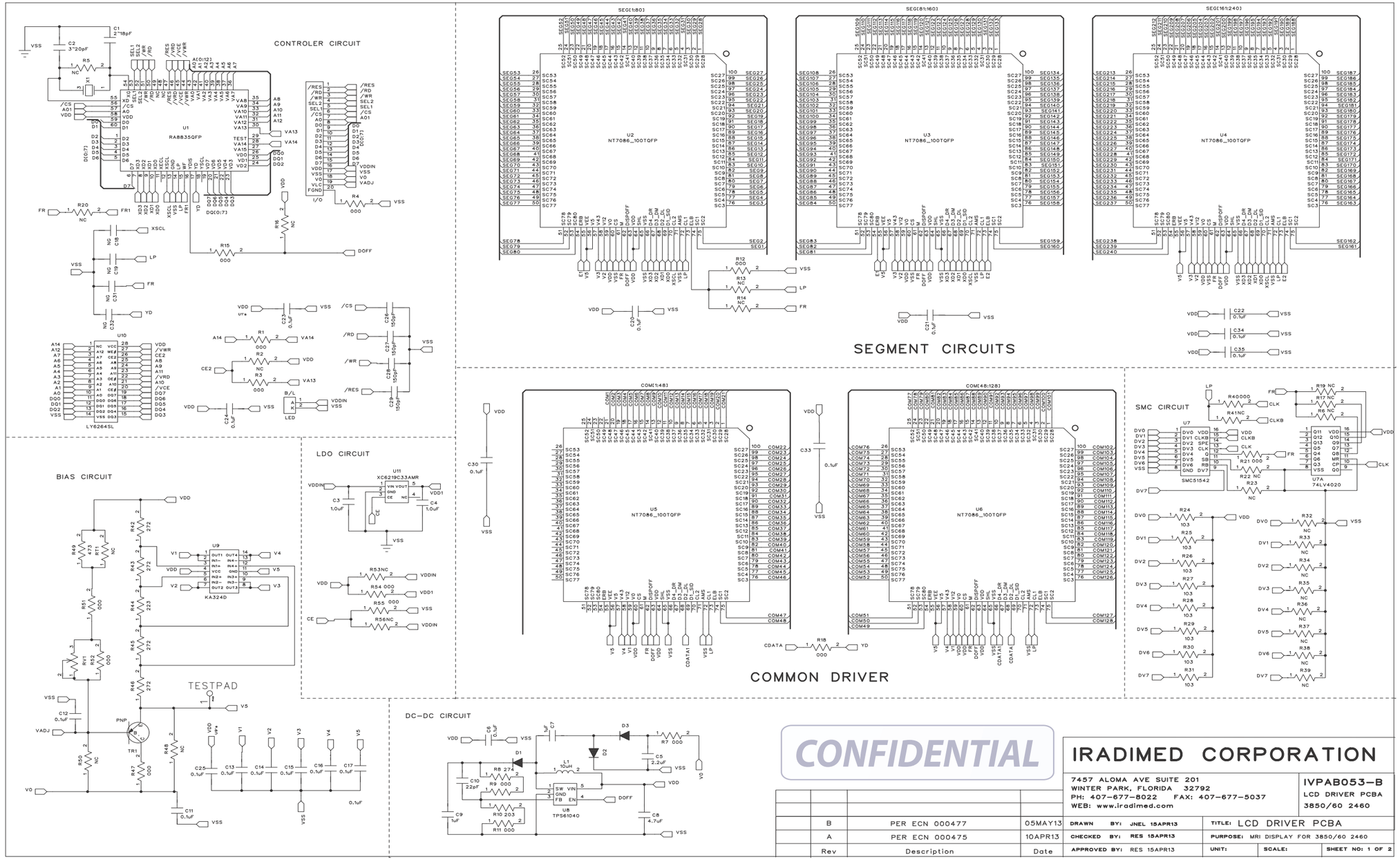
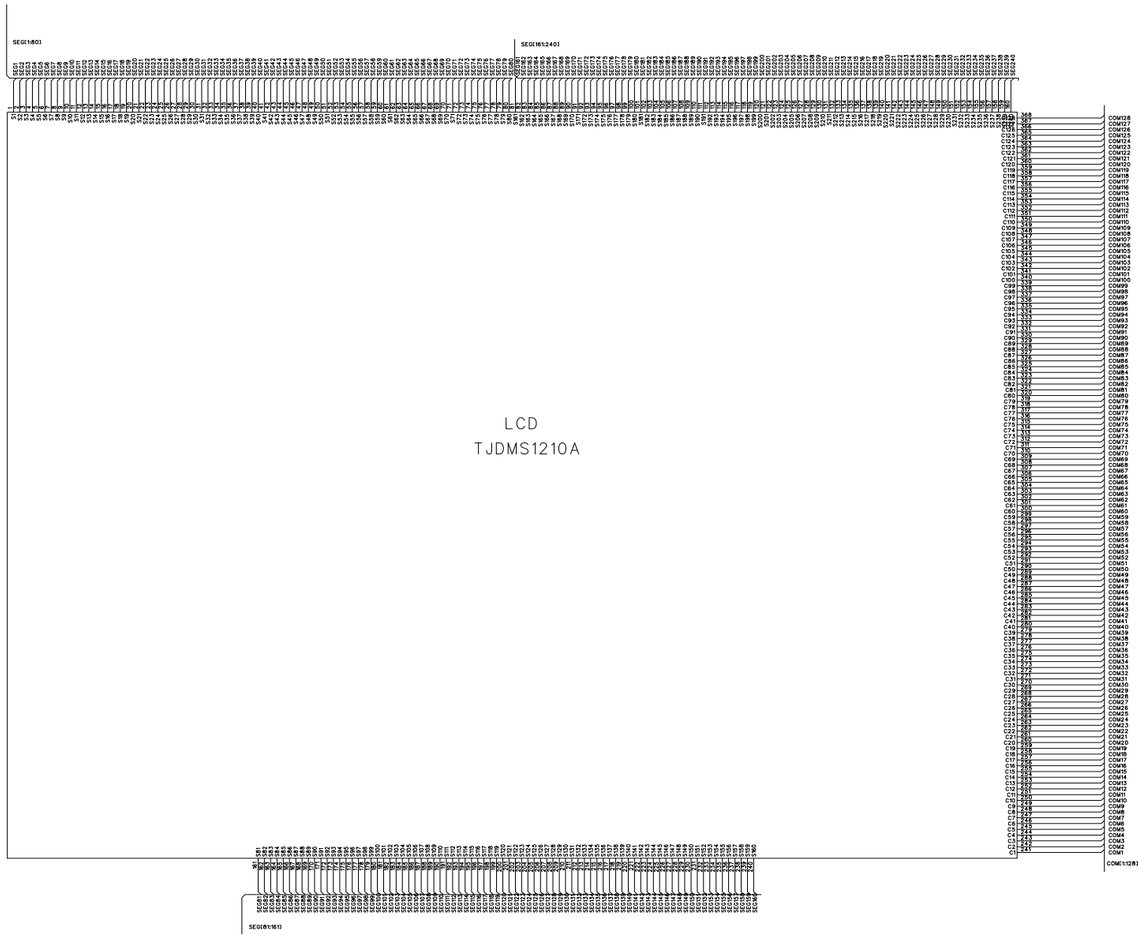


Figure 5-44. IVPAB053 LCD Display PCBA Assembly Schematic (85D053 P1)

Item	Reference	Part Name, Packaging	Qty
1	C1、C2	20pf 50V,0603,? ±5%	2
2	C3、C4、C7、C9	1.0uf 25V,0603,±10%	4
3	C5	2.2uF 25V,0805,±10%	1
4	C6、C11、C12、C13、C14 C15、C16、C17、C20、C21 C22、C23、C24、C25	0.1uf 25V,0603,±10%	14
5	C8	4.7uf 6.3V,0603,±10%	1
6	C10	22pf 50V,0603,±5%	1
7	C18、C19、C31、C32	NC 50V,0603,±5%	4
8	C26、C27、C28、C29	150pf 50V,0603,±5%	4
9	C30、C33	0.1uF 25V,0603,±10%	2
10	X1	E6SB10.0000F30E22F	1
11	D1、D2、D3	DIODE	3
12	I/O	Pitch=2.54mm	1
13	L1	LRB521S-30T1, SOD-523	1
14	B/L	LED, Pitch=2.54mm	1
15	U1	RA8835,QFP	1
16	U2、U3、U4、U5、U6	NT7086 COB, NT7086*	5
17	U7	SMC51542,SSOP-16PIN	1
18	U8	TPS61040,SOT-23-5	1
19	U9	KA324D,SOP-14	1
20	U10	LY62256SL,SOP-28	1
21	U11	XC6219C33AMR,SOT-23-5	1
22	TR1	MMBT3906LT1,SOT-23	1
23	R1、R3、R4、R7、R9、R11、R12 R15、R18、R21 R39、R40、R47 R51、R52、R54、R55	0R,1/10W,0603,±5%	17
24	R24、R25、R26、R27 R28、R29、R30、R31	10K,1/10W,0603,±5%	8
26	R10	20K,1/10W,0603,±5%	1
27	R44	22K,1/10W,0603,±5%	1
28	R42、R43、R45、R46	2.7K,1/10W,0603,±5%	4
29	R8	270K,1/10W,0603,±5%	1
30	R49	47K,1/10W,0603,±5%	1
31	R2、R5、R13、R14、R16、R20 R22、R23 R32、R33、R34、R35、R26、R27、R38、R41、R48、R53、R56、RT1、R50	NC, 1/10W,0603,±5%	20
32	TEST	TESTPAD,	1
33	LCD	TJDMS1210A,	1
34	RV1	NC, EVN5	1



IRADIMED CORPORATION

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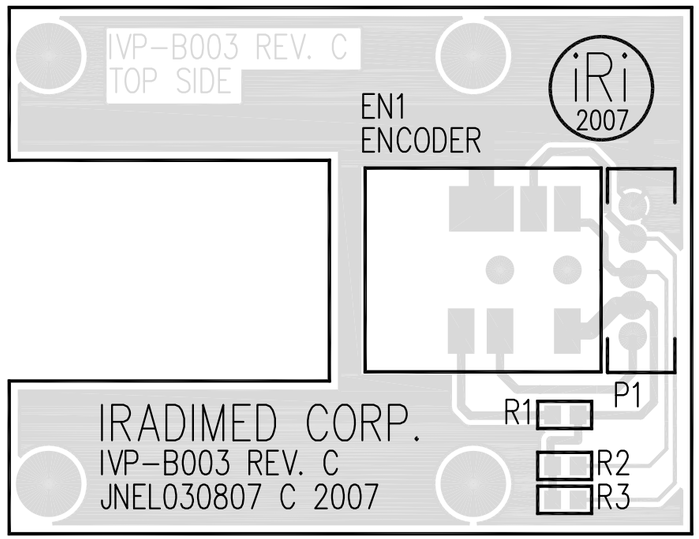
WEB: www.iradimed.com

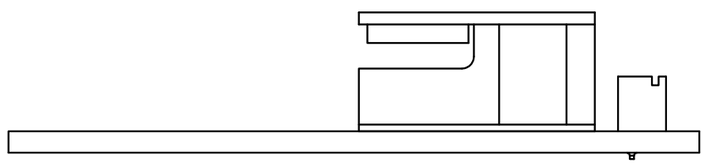
IVPAB053-B
LCD DRIVER PCBA
3850/60 2460

Rev	Description	Date
B	PER ECN 000477	05MAY13
A	PER ECN 000475	10APR13

DRAWN BY: JNEL 15APR13
CHECKED BY: RES 15APR13
APPROVED BY: RES 15APR13
TITLE: LCD DRIVER PCBA
PURPOSE: MRI DISPLAY FOR 3850/60 2460
UNIT:
SCALE:
SHEET NO: 2 OF 2

Figure 5-45. IVPAB053 LCD Display PCBA Assembly Schematic (85D053 P2)





NOTE:

1. DO NOT USE SOLVENT CLEANERS OR FLUX REMOVER ON THIS ASSEMBLY AS DAMAGE TO THE ENCODER DEVICE IS POSSIBLE WITH CONTACT TO THESE SUBSTANCES.

2. ASSEMBLY MUST MEET IPC-610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

REF. ELECTRONIC B.O.M. IVPAB003 REV. G

Rev.	Description	Date
G	PER ECN 000331	12JAN10
F	PER ECN 000189	08MAR07
E	PER ECN 000148	05DEC06
D	PER ECN 000128	20SEP06
C	PER ECN 000003	10OCT05
B	PROTOTYPE REV'S.	20JUL05
A	PROTOTYPE REV'S.	19JAN05

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 12JAN05
Eng.: GRB Date: 12JAN10
Q.A.: FXC Date: 12JAN10
R.A.: FXC Date: 12JAN10
Mfg.: TWF Date: 12JAN10

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: PCBA, ROTARY OPTICAL ENCODER

Size: B

Part/Dwg. No: IVPAB003

Rev: G

Cad. Scale: 3:1

Sheet 1 of 1

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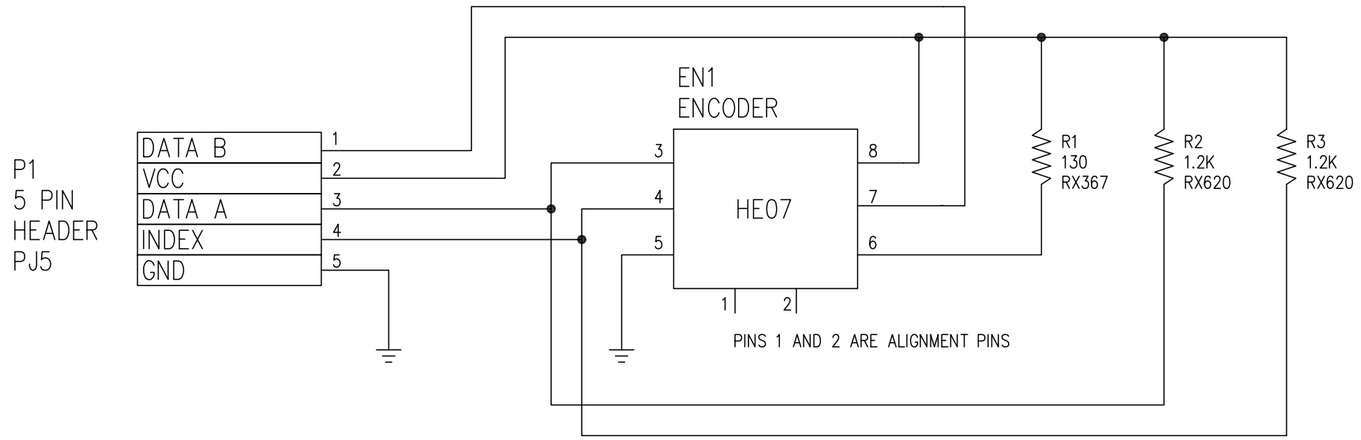
LF19 Rev. A

Figure 5-46. IVPAB003 Rotary Optical Encoder PCB Assembly



			Tolerances unless otherwise noted on dwg.:	.XX = ± .02 .XXX = ± .010 ∠ = ± 2°	**Iradimed Corporation**
			Drawn: JNEL	Date: 10/28/05	
			Eng.:	Date:	Title: SCHEMATIC AB003 PCB / Size: B
			Q.A.:	Date:	
			R.A.:	Date:	
			Mfg.:	Date:	Part/Dwg. No: 85B003 / Rev: 0
			Do NOT scale this drawing !		
Rev.	Description	Date	Third Angle Projection — INCH		Cad. Scale: NA / Sheet 1 of 1
Revision History					

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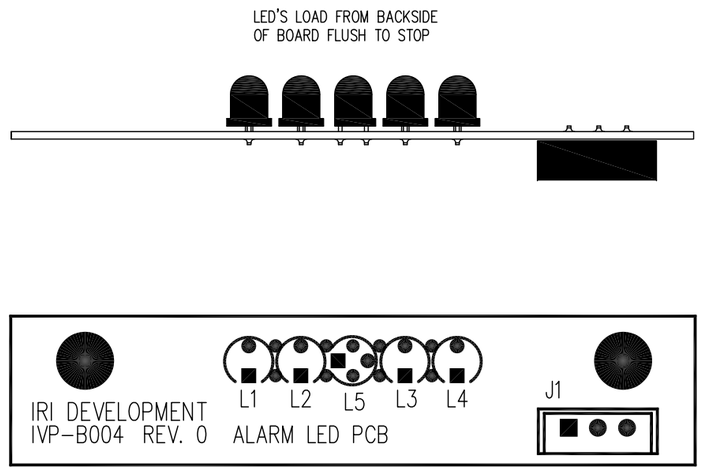
ECN 000006

LF19 Rev. A

Figure 5-47. IVPAB003 (85B003) PCB Assembly Schematic



REF. ELECTRONIC B.O.M. IVPAB004

Rev.	Description	Date

SCALE 4:1 — .X=0.05, .XX=0.01, .XXX=0.005

DRAWN BY: John Nelson — DATE: 01-19-2005

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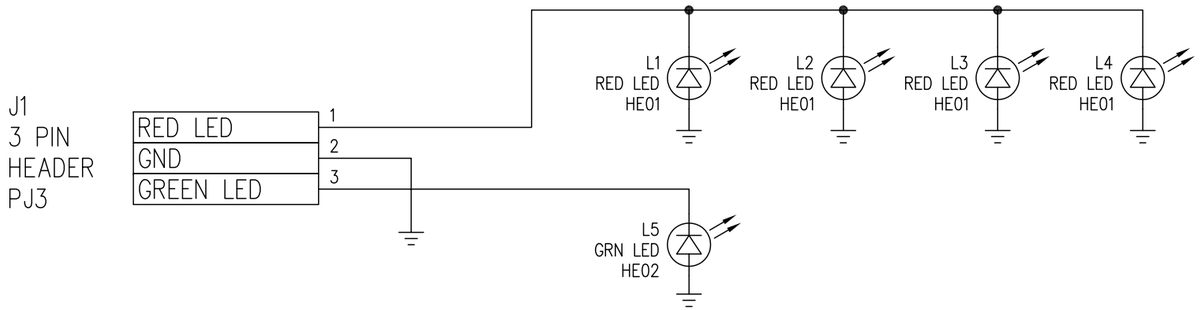
Iradimed Corporation

Drawing Number: IVPAB004 — REV: 0

Drawing Name: PCBA, ALARM LED — Size: C

SHEET 1 OF 1

Figure 5-48. IVPAB004 Alarm LED PCB Assembly



			Tolerances unless otherwise noted on dwg.:	.XX = ± .02 .XXX = ± .010 ∠ = ± 2°	**Iradimed Corporation**
			Drawn: JNEL	Date: 10/28/05	
			Eng.:	Date:	Title: SCHEMATIC AB004 PCB — Size: B
			Q.A.:	Date:	
			R.A.:	Date:	
			Mfg.:	Date:	Part/Dwg. No: 85B004 — Rev: 0
			Do NOT scale this drawing !		
Rev.	Description	Date	Third Angle Projection	INCH	Cad. Scale: NA — Sheet 1 of 1
Revision History					

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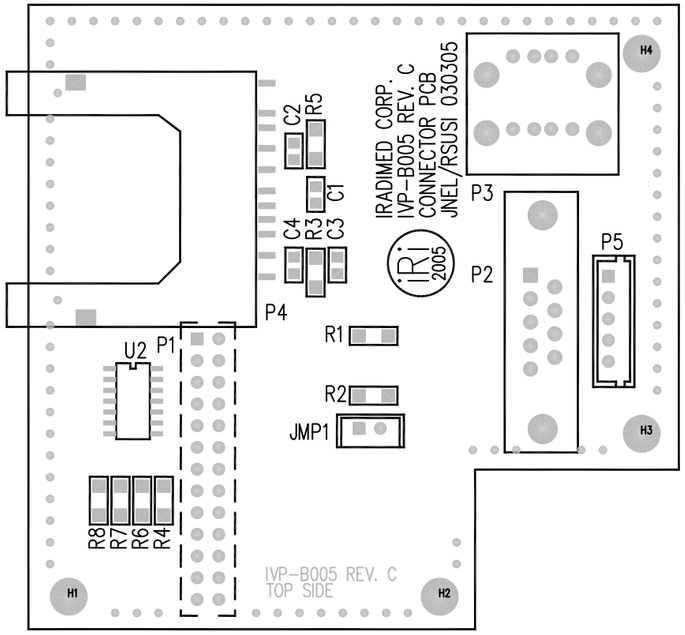
ECN 000006

LF19 Rev. A

Figure 5-49. IVPAB004 (85B004) Alarm LED PCB Assembly Schematic



NOTES:

1. INSTALL CONNECTOR AT LOCATION P1 FROM THE BACKSIDE OF BOARD.

2. INSTALL DB9F CONNECTOR (PF06) TO BOARD AT LOCATION P2 USING 2 SCREWS (NS12) TREADED THRU FROM BACKSIDE OF BOARD.

3. ASSEMBLY REVISION C WILL USE BLANK PCB IVPB005 REV. C. USE IRADIMED BOM IVPAB005-D FOR LIST OF ITEM NUMBERS AND COMPONENTS.

Rev.	Description	Date
D	ECN 000116	20MAR06
C	ECN 000066	28MAR05
B	ECN 000063	22MAR05
A	ECN 031705-1	03/05

SCALE 3:1 — .X=0.05, .XX=0.01, .XXX=0.005
DRAWN BY: John Nelson — DATE: 01-19-2005

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Iradimed Corporation

Drawing Number: IVPAB005 — REV: D

Drawing Name: PCBA, REAR I/O — Size: C

SHEET 1 OF 1

Figure 5-50. IVPAB005 Rear Panel Connector PCB Assembly

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:
D	CHANGES PER ECN 000116	JRN	07AUG06

JMP1

PF06
DB9 F CONNECTOR
P2

R1 150 RX170
R2 150 RX170
R3 2K RX67
R4 150 RX170
R5 4.7K RX08
R6 2K RX67
R7 2K RX67
R8 2K RX67

3.3V

U2-A ICX619
U2-B ICX619
U2-C ICX619
U2-D ICX619

C1 0.1uF CX51
C2 47pF CX605
C3 47pF CX605
C4 47pF CX605

P1
26 PIN DUAL
PA26DS

1 2
3 TX
4 CTS
5 RX
6 RTS
7 GND
8 5V
9 GND
10 5V
11 GND
12 GND
13
14
15
16 RTSO/CS
17
18
19 MOSI
20
21
22
23 D+
24 D-
25 GND
26 V BUSS

P3
DUAL USB
(OMIT)
VB GND
VB GND

CS
SI
SCK
SO

P4
PA7
DATA FLASH

DRAWN: JNEL	DATED: 10-31-2005	
CHECKED:	DATED:	
QUALITY CONTROL:	DATED:	
RELEASED:	DATED:	

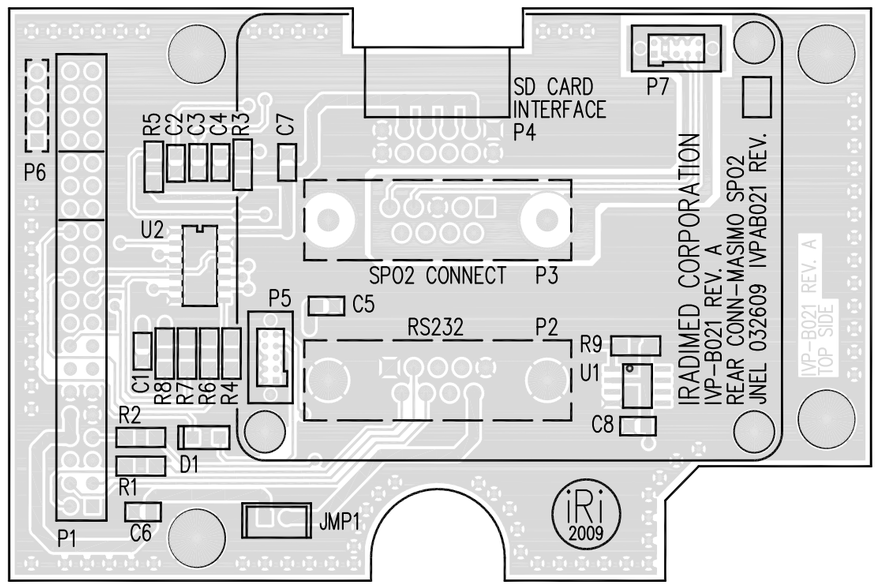
COMPANY: Iradimed Corporation

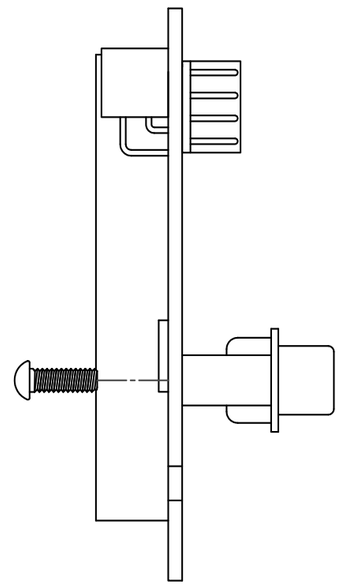
TITLE: SCHEMATIC: AB005
REAR CONNECTOR PCB
MRIDIUM 3850

CODE:	SIZE:	DRAWING NO:	REV:
AB005	B	85B005	D

SCALE: NA SHEET: 1 OF 1

Figure 5-51. IVPAB005 (85B005) Rear Panel Connector PCB Assembly Schematic





NOTES:

1. INSTALL CONNECTORS AT LOCATIONS P2 AND P6 FROM THE BACKSIDE OF PCB. USE 4 #4-40 SCREWS TO SECURE DB9 CONNECTOR AT LOCATION P2 AS SHOWN.

2. ASSEMBLY MUST MEET IPC-610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

3. ASSEMBLY REVISION B WILL USE BLANK PCB IVPB021A REV. A USE IRADIMED BOM IVPAB021A REV. B FOR LIST OF ITEM NUMBERS AND COMPONENTS.

Rev.	Description	Date
B	ECN 000331	12JAN10
A	ECN 000323	08DEC09

Revision History

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Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn:	JRN	Date: 08DEC09
Eng.:	RES	Date: 12JAN10
Q.A.:	FXC	Date: 12JAN10
R.A.:	FXC	Date: 12JAN10
Mfg.:	TWF	Date: 12JAN10

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: PCBA, REAR CONN/ 3850/3850R	Size: B
Part/Dwg. No: IVPAB021A	Rev: B
Cad. Scale: 2:1	Sheet 1 of 1

LF19 Rev. A

Figure 5-52. IVPAB021A Rear I/O PCB Assembly*

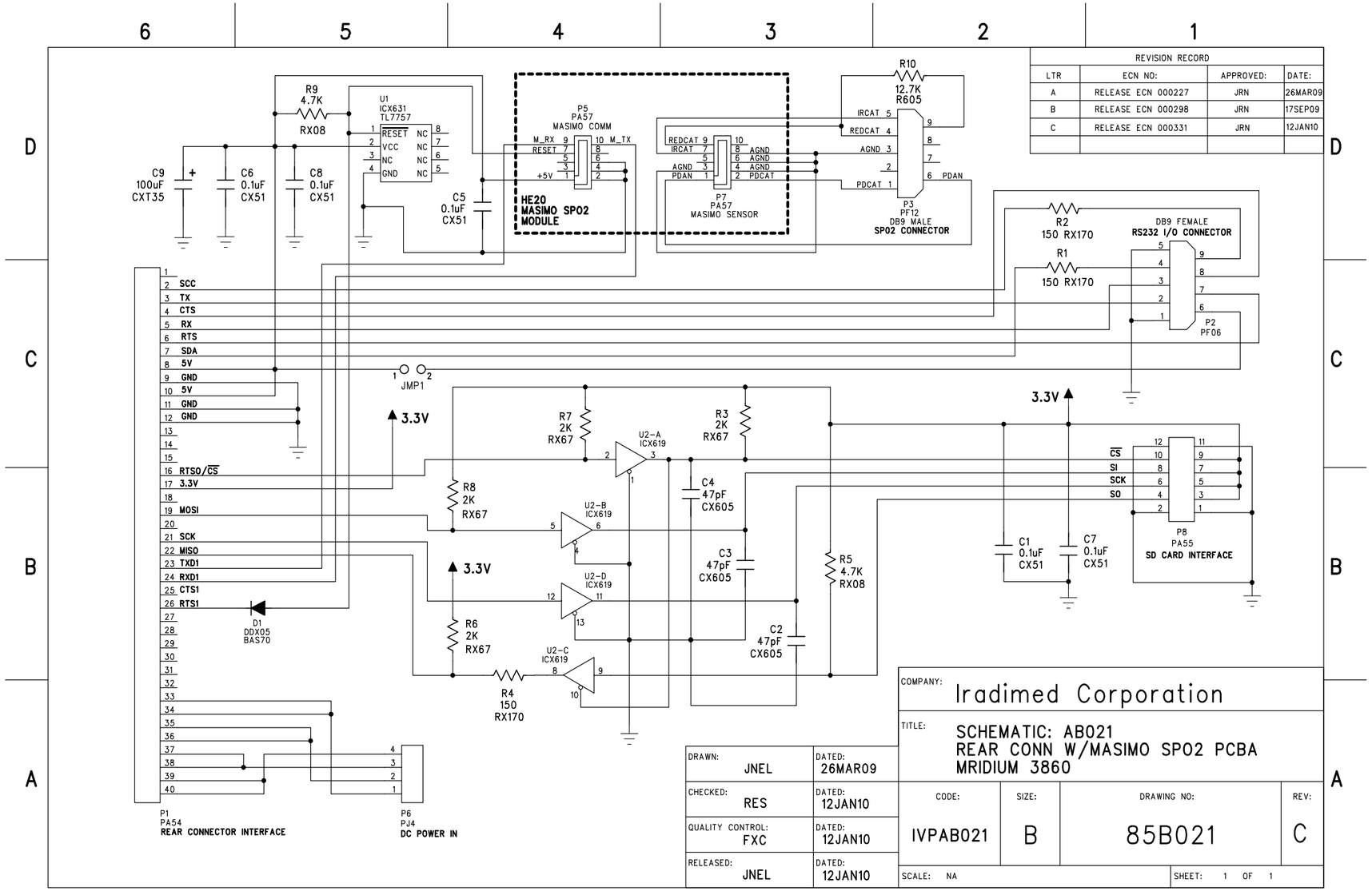
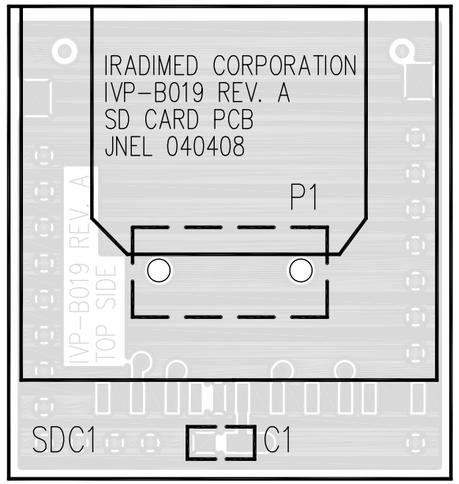
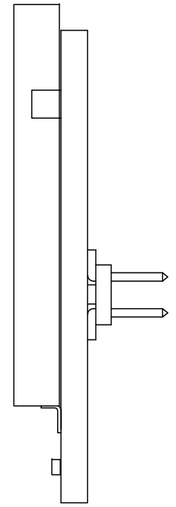


Figure 5-53. IVPAB021A (85B021) Rear I/O PCB Assembly Schematic*





NOTES:

1. INSTALL CONNECTOR AT LOCATION P1 AND FROM THE BACKSIDE OF PCB. INSURE MOUNTING PINS FROM P1 ARE FLUSH WITH FRONT SIDE OF PCB BEFORE INSTALLING SD CARD READER (LOCATION SDC1).

2. ASSEMBLY MUST MEET IPC-610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

3. ASSEMBLY REVISION B WILL USE BLANK PCB IVPB019 REV. A. USE IRADIMED BOM IVPAB019 REV. B FOR LIST OF ITEM NUMBERS AND COMPONENTS.

Rev.	Description	Date
B	ECN 000331	12JAN10
A	ECN 000227	04APR08

Revision History

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Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn:	JRN	Date: 04APR08
Eng.:	RES	Date: 12JAN10
Q.A.:	FXC	Date: 12JAN10
R.A.:	FXC	Date: 12JAN10
Mfg.:	TWF	Date: 12JAN10

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: PCBA, SD CARD
PCBA, 3850/3860

Size: B

Part/Dwg. No: IVPAB019

Rev: B

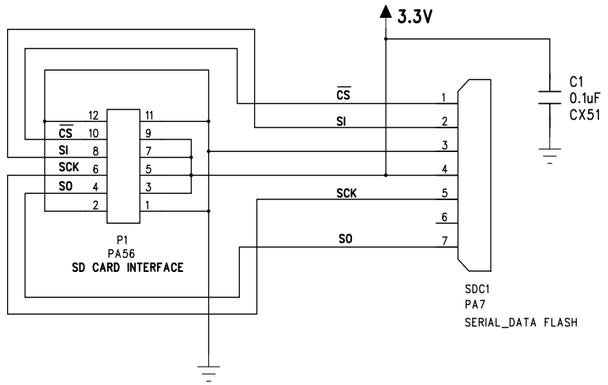
Cad. Scale: 3:1

Sheet 1 of 1

LF19 Rev. A

Figure 5-54. IVPAB019 Data Card PCB Assembly*

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:
A	RELEASE ECN 000227	JRN	08APR08



DRAWN: JNEL	DATED: 08APR08
CHECKED:	DATED:
QUALITY CONTROL:	DATED:
RELEASED:	DATED:

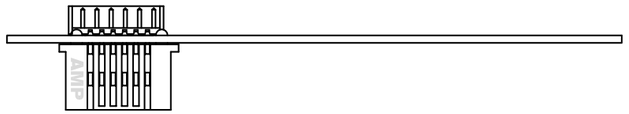
COMPANY: Iradimed Corporation

TITLE: SCHEMATIC: IVPAB019
SERIAL DATA CARD PCBA
3850/3860

CODE:	SIZE:	DRAWING NO:	REV:
AB019	B	85B019	A

SCALE: NA SHEET: 1 OF 1

Figure 5-55. IVPAB019 (85B019) Data Card PCB Assembly Schematic*



NOTES:

1. ASSEMBLY MUST MEET IPC-610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

REF. ELECTRONIC B.O.M. IVPAB006

Rev.	Description	Date
A	PER ECN 000331	12JAN10

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 19JAN05
Eng.: GRB Date: 12JAN10
Q.A.: FXC Date: 12JAN10
R.A.: FXC Date: 12JAN10
Mfg.: TWF Date: 12JAN10

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: PCBA, BATTERY CONN. 3850/60

Size: C

Part/Dwg. No: IVPAB006

Rev: A

Cad. Scale: 2:1 Sheet 1 of 1

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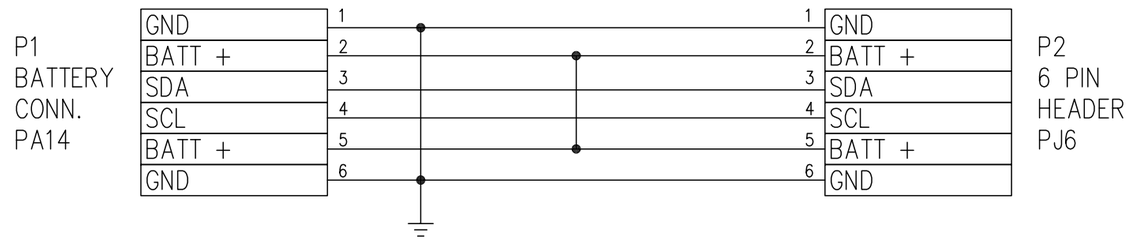
LF19 Rev. A

Figure 5-56. IVPAB006 Battery Interconnect PCB Assembly



This drawing is the sole property of Iradimed Corporation. Any reproduction or use without written consent may result in legal arbitration to seek damages.

Rev.	Description	Date
Revision History		

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Drawn: JNEL	Date: 10/28/05	
Eng.:	Date:	
Q.A.:	Date:	
R.A.:	Date:	
Mfg.:	Date:	

Title: SCHEMATIC AB006 PCB

Size: B

Part/Dwg. No: 85B006

Rev: 0

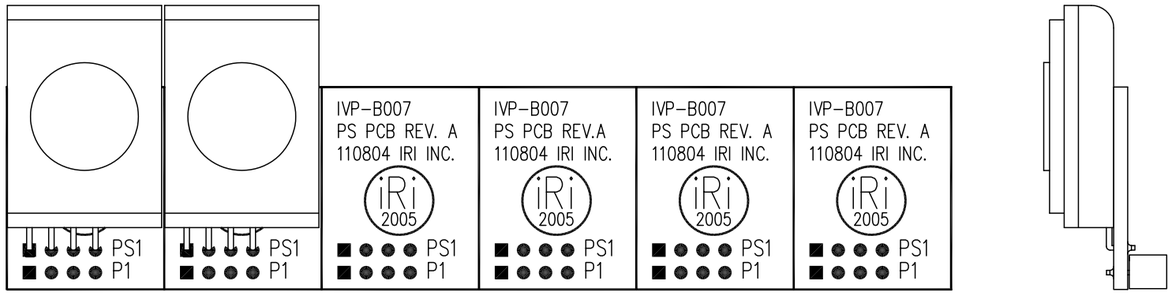
Cad. Scale: NA

Sheet 1 of 1

ECN 000006

LF19 Rev. A

Figure 5-57. IVPAB006 (85B006) Battery Interconnect PCB Assembly Schematic



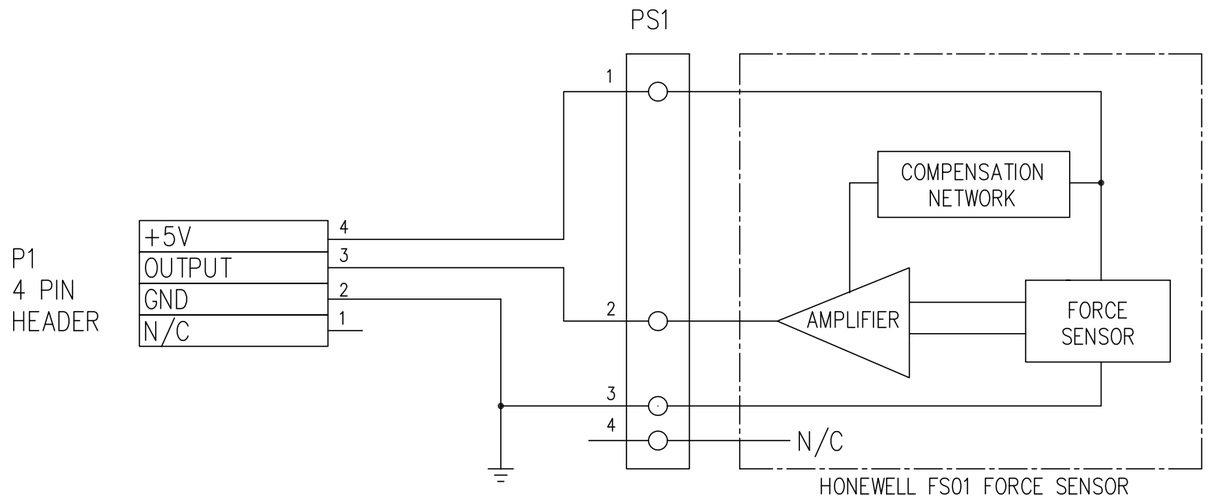
NOTES:
1. ASSEMBLE AND SOLDER PARTS TO BOARD PRIOR TO SNAPPING AT SCORE LINE.

2. MOUNT P1 ON THE BACKSIDE OF BOARD AS SHOWN IN SIDE VIEW.

REF. ELECTRONIC B.O.M. IVPAB007

			SCALE 2:1	.X=0.05 .XX=0.01 .XXX=0.005	**Iradimed Corporation**
			DRAWN BY	DATE	
			John Nelson	01-19-2005	Drawing Number IVPAB007 / REV 0
Rev.	Description	Date	This drawing is the sole property of Iradimed Corp. Any reproduction or use without consent may result in legal arbitration to seek damages.		Drawing Name PCBA, PRESSURE SENSOR / Size C
					SHEET 1 OF 1

Figure 5-58. IVPAB007 Pressure Sensor PCB Assembly



			Tolerances unless otherwise noted on dwg.:	.XX = ± .02 .XXX = ± .010 ∠ = ± 2°
			Drawn: JNEL	Date: 12/06/05
			Eng.:	Date:
			Q.A.:	Date:
			R.A.:	Date:
			Mfg.:	Date:
			Do NOT scale this drawing !	

Iradimed Corporation

Title:	Size
SCHEMATIC AB007 PCB	B
Part/Dwg. No: 85B007	Rev: 0
Cad. Scale: NA	Sheet 1 of 1

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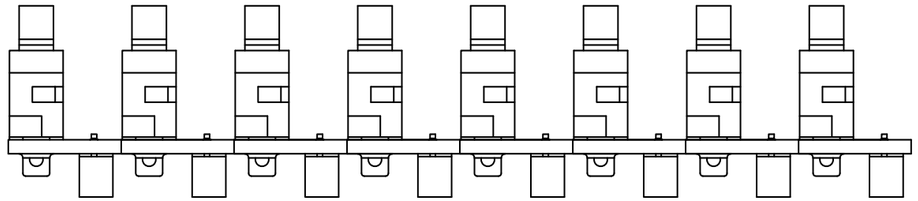
Rev.	Description	Date
Revision History		

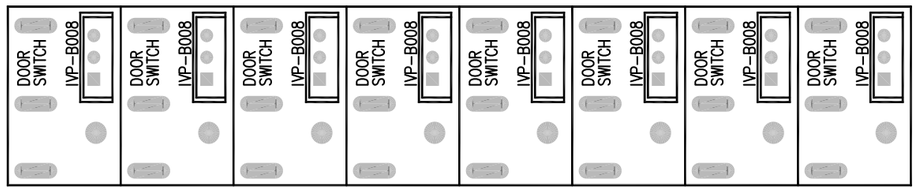
Third Angle Projection — INCH

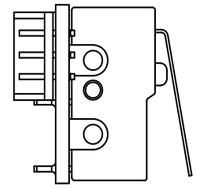
ECN 000006

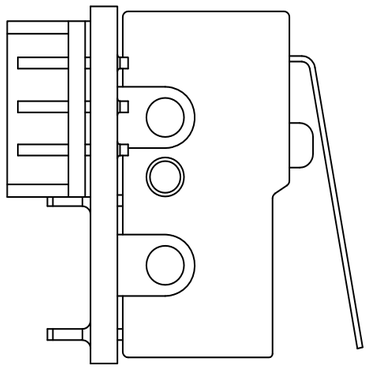
LF19 Rev. A

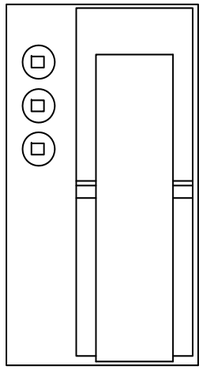
Figure 5-59. IVPAB007 (85B007) Pressure Sensor PCB Assembly Schematic











NOTE:

1. AFTER ASSEMBLY OF ALL 8 PCBA'S ON PANEL, BREAK AWAY BOARDS AT SCORE LINES INTO INDIVIDUAL COMPONENTS.

2. ROUTE TO INSPECTION.

3. ASSEMBLY MUST MEET IPC-610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

REF. ELECTRONIC B.O.M. IVPAB008 REV. D

Rev.	Description	Date
D	PER ECN 000346	10MAY10
C	PER ECN 000331	12JAN10
B	PER ECN 000193	27MAR07
A	PER ECN 000111	28JUL06

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 10JAN05
Eng.: RES Date: 10MAY10
Q.A.: FXC Date: 10MAY10
R.A.: FXC Date: 10MAY10
Mfg.: TWF Date: 10MAY10

Do NOT scale this drawing !

Third Angle Projection — MM

Iradimed Corporation

Title: PCBA DOOR SWITCH
Size: C
Part/Dwg. No: IVPAB008
Rev: D
Cad. Scale: 3:1
Sheet 1 of 1

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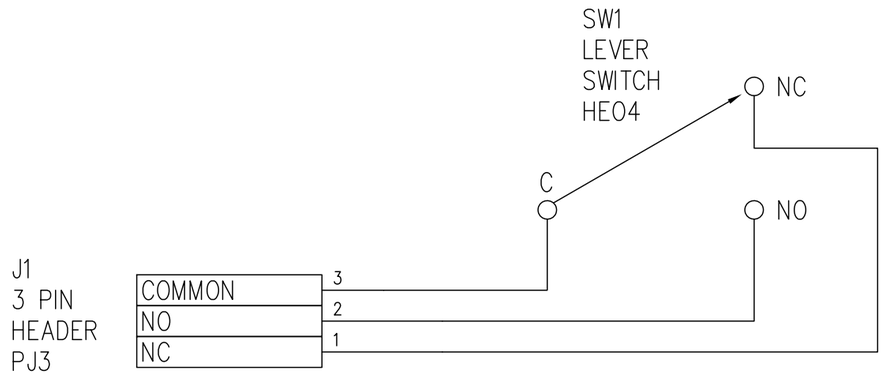
LF19 Rev. A

Figure 5-60. IVPAB008 Door Switch PCB Assembly



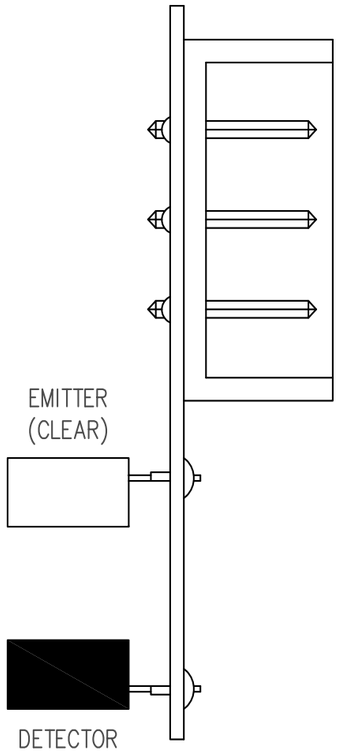
			Tolerances unless otherwise noted on dwg.:	.XX = ± .02 .XXX = ± .010 ∠ = ± 2°	**Iradimed Corporation**
			Drawn: JNEL	Date: 11/03/05	
			Eng.:	Date:	Title: SCHEMATIC AB008 PCB / Size: B
			Q.A.:	Date:	
			R.A.:	Date:	
			Mfg.:	Date:	Part/Dwg. No: 85B008 / Rev: 0
			Do NOT scale this drawing !		
Rev.	Description	Date	Third Angle Projection	INCH	Cad. Scale: NA / Sheet 1 of 1
Revision History					

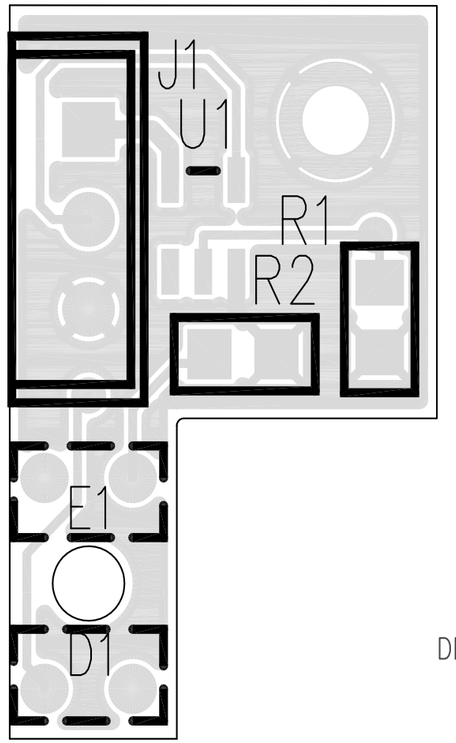
This drawing is the sole property of Iradimed Corporation. Any reproduction or use without written consent may result in legal arbitration to seek damages.

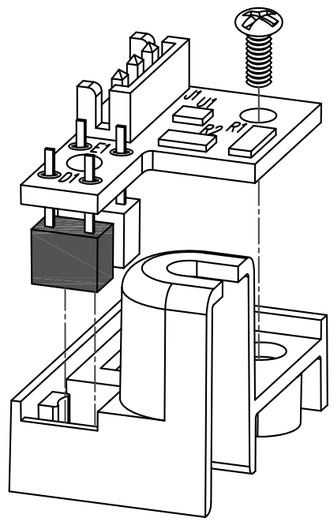
ECN 000006

LF19 Rev. A

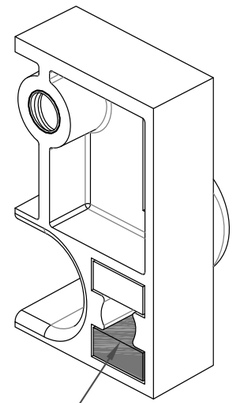
Figure 5-61. IVPAB008 (85B008) Door Switch PCB Assembly Schematic







BOTTOM VIEW



ASSURE BOTH EMITTER AND
DETECTOR ARE ALIGNED SQUARELY
IN HOLES AFTER SOLDERING.

REF. ELECTRONIC B.O.M. IVPAB031 REV. A

NOTES:

1. INSERT PHOTO DETECTOR AND EMITTER (D1 AND E1) FROM BOTTOM SIDE OF BOARD AS SHOWN (DO NOT SOLDER). INSTALL BOARD ASSEMBLY TO PLASTIC MOUNT (IVP1127) WITH #2–56 SCREW. PLACE ASSEMBLY ON FLAT SURFACE AND ALLOW D1 AND E1 TO FALL LEVEL WITH BASE OF MOUNT. SOLDER IN PLACE AND TRIM EXCESS LEADS.

2. ASSEMBLY MUST MEET IPC–610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

Rev.	Description	Date
A	ECN 000357	21OCT10
01	PROTOTYPE	01SEP10

Revision History

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Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn:	JRN	Date: 01SEP10
Eng.:	GRB	Date: 21OCT10
Q.A.:	FXC	Date: 21OCT10
R.A.:	FXC	Date: 21OCT10
Mfg.:	TWF	Date: 21OCT10

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: ASSEMBLY: DOOR DETECTOR PCB 3850, 3851, 3860, 3861

Size: B

Part/Dwg. No: IVPAB031

Rev: A

Cad. Scale: 2:1

Sheet 1 of 1

LF19 Rev. A

Figure 5-62. IVPAB031 (85B031) Optic Door Switch PCB Assembly**

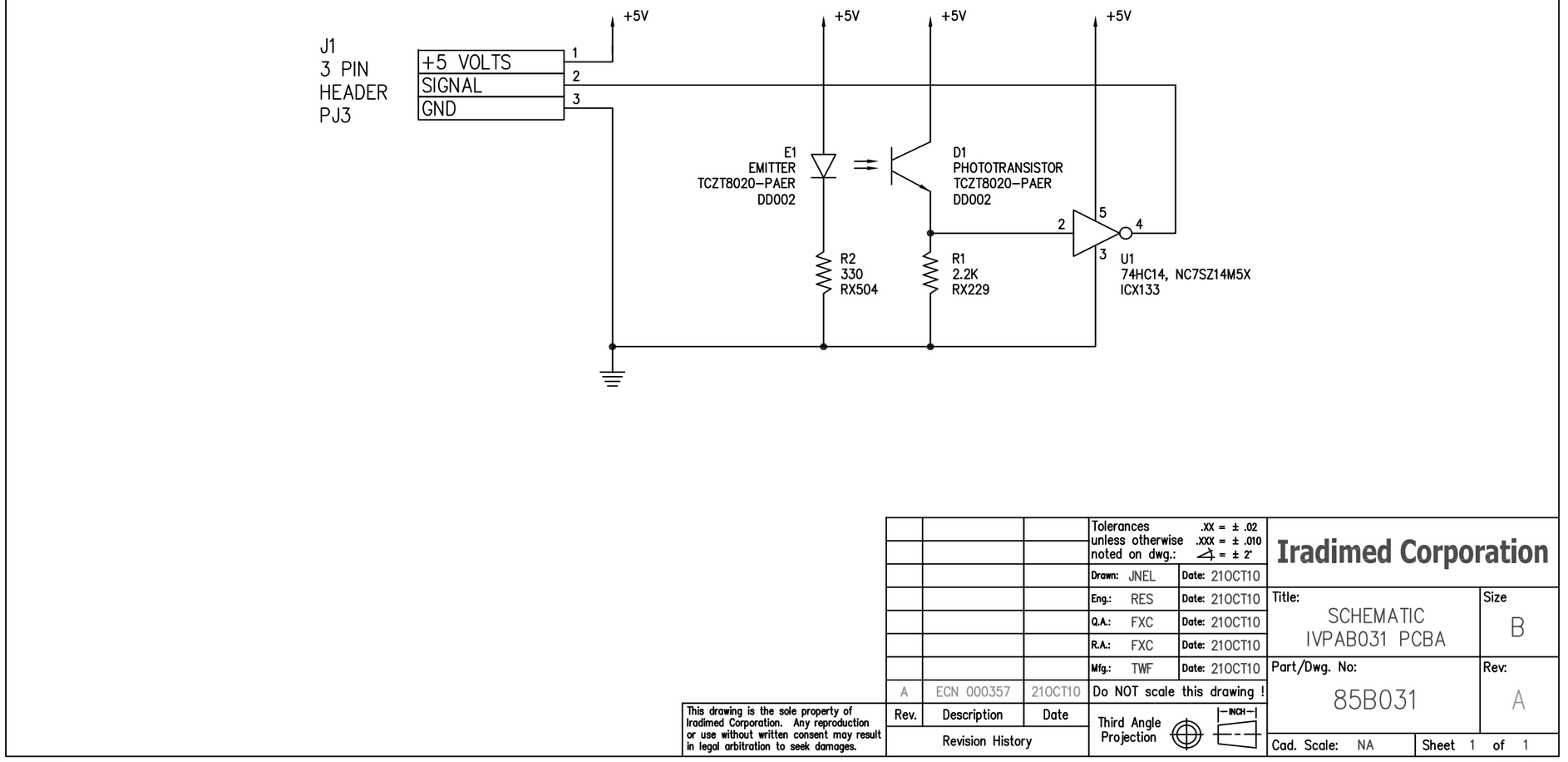
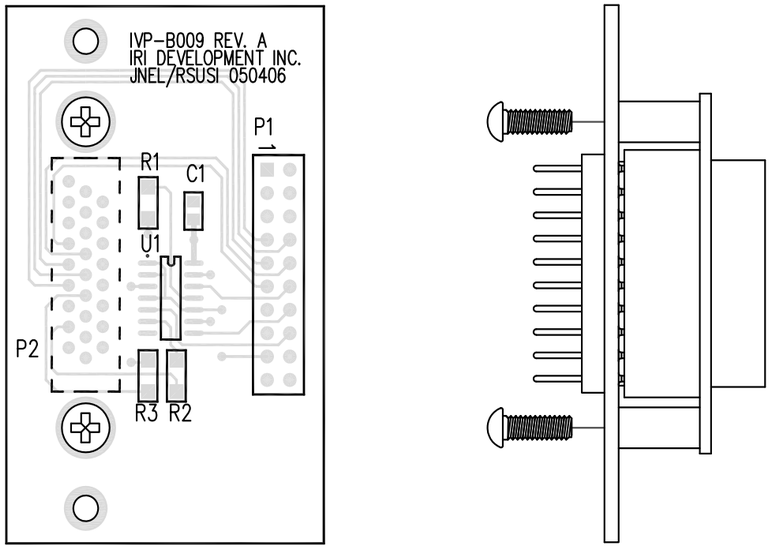


Figure 5-63. IVPAB031 (85B031) Optic Door Switch PCB Assembly Schematic**



NOTES:

1. MOUNT CONNECTOR AT LOCATION P2 FROM BACKSIDE OF PCB USING 2 #4-40 X 3/8 SCREWS (NS13).

REF. ELECTRONIC B.O.M. IVPAB009 REV. A

			Tolerances unless otherwise noted on dwg.:	.XX = ± .02 .XXX = ± .010 ∠ = ± 2°	**Iradimed Corporation**
			Drawn: JRN	Date: 20JAN05	
			Eng.: GRB	Date: 05MAY06	Title: PCBA, INTERCONNECT 3850 IV PUMP
			Q.A.: FXC	Date: 05MAY06	Size: B
			R.A.: FXC	Date: 05MAY06	
			Mfg.: TWF	Date: 05MAY06	Part/Dwg. No: IVPAB009
A	ECN 000086	05MAY06	Do NOT scale this drawing !		Rev: A
Rev.	Description	Date	Third Angle Projection	INCH	Cad. Scale: 2:1
Revision History					Sheet 1 of 1

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LF19 Rev. A

Figure 5-64. IVPAB009 SideCar I/O PCB Assembly.

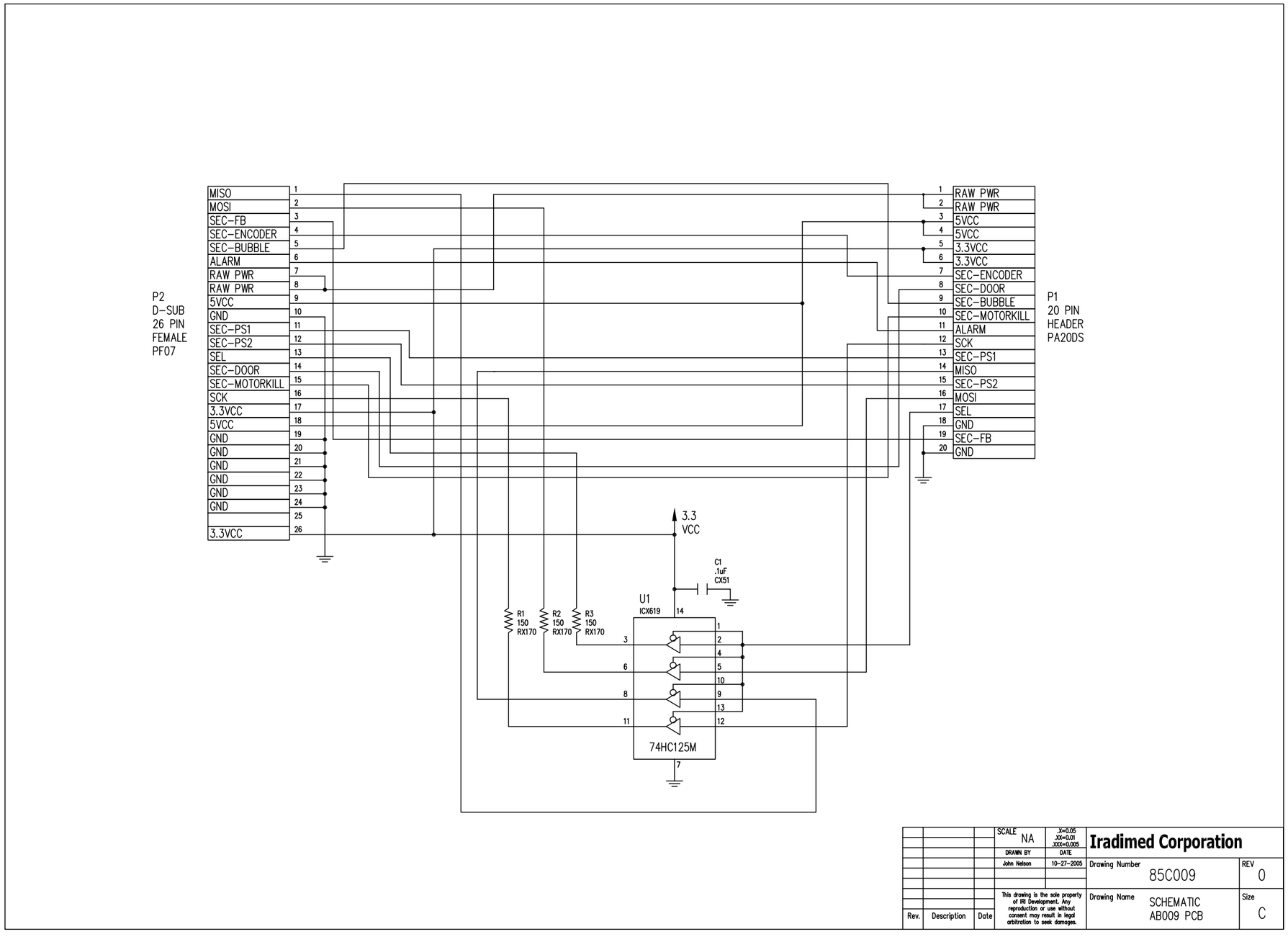
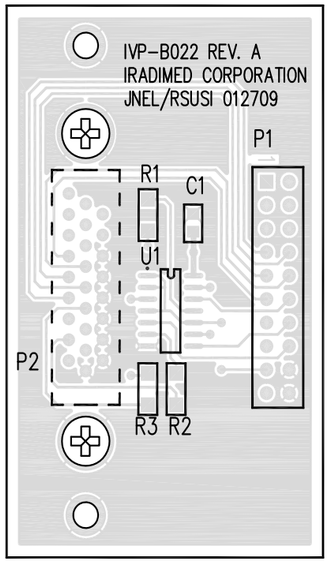
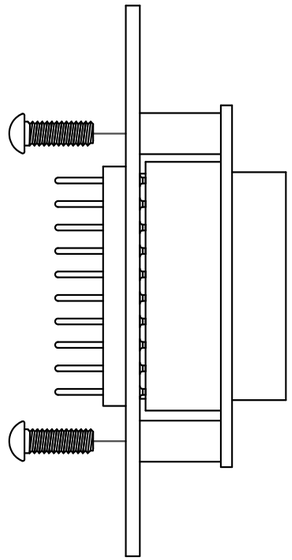


Figure 5-65. IVPAB009 (85B009) SideCar I/O PCB Assembly Schematic





NOTES:

1. MOUNT CONNECTOR AT LOCATION P2 FROM BACKSIDE OF PCB USING 2 #4-40 X 3/8 SCREWS (NS13).

2. ASSEMBLY MUST MEET IPC-610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

REF. ELECTRONIC B.O.M. IVPAB022 REV. B

Rev.	Description	Date
B	ECN 000331	12JAN10
A	ECN 000270	27JAN09

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 12DEC08
Eng.: RES Date: 12JAN10
Q.A.: FXC Date: 12JAN10
R.A.: FXC Date: 12JAN10
Mfg.: TWF Date: 12JAN10

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: PCBA, INTERCONNECT 3860/50 V2 PUMP
Size: B
Part/Dwg. No: IVPAB022
Rev: B
Cad. Scale: 2:1
Sheet 1 of 1

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LF19 Rev. A

Figure 5-66. IVPAB022 (85B022) Sidecar I/O PCB Assembly 3850/60 (V2)*

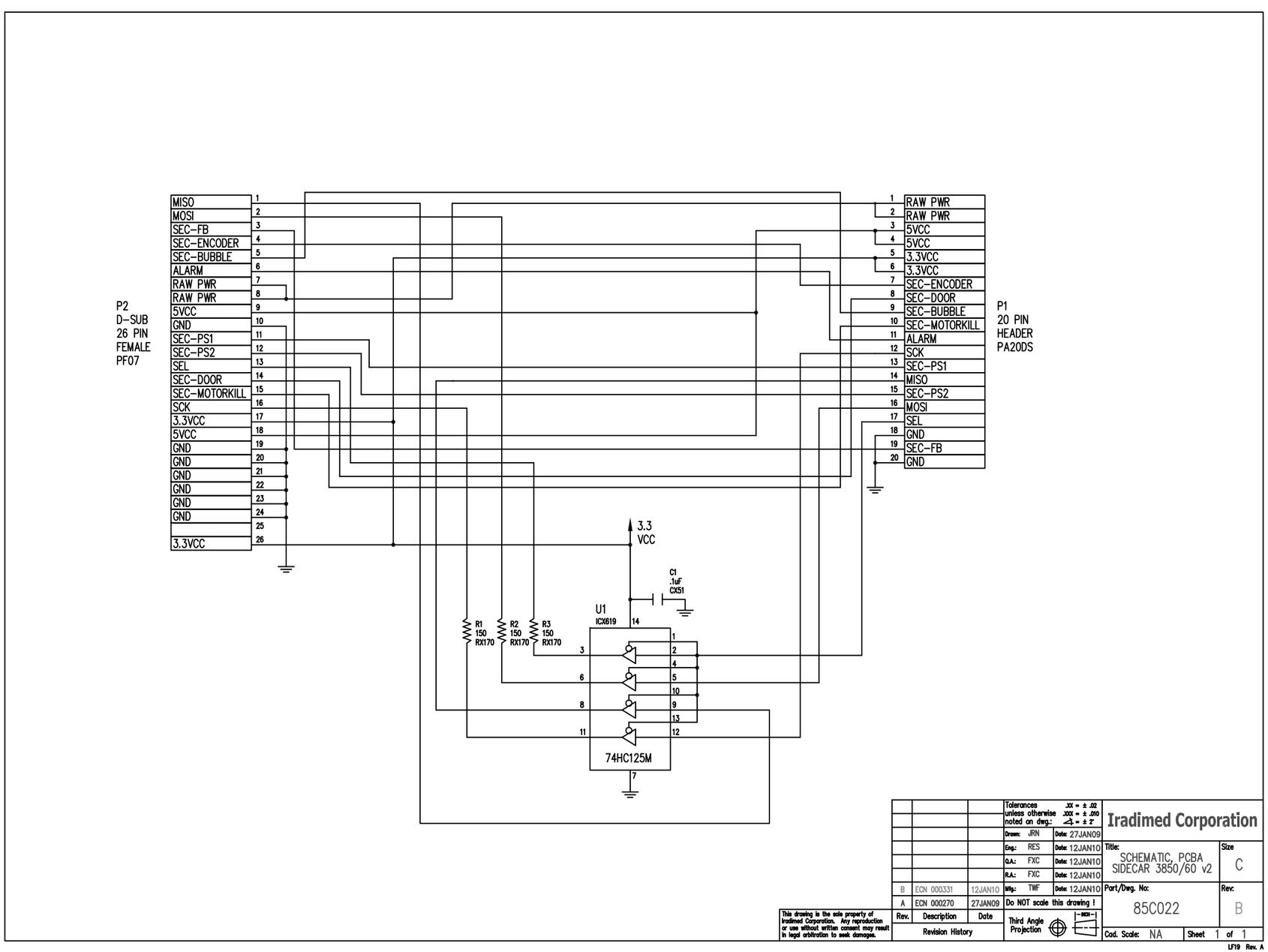
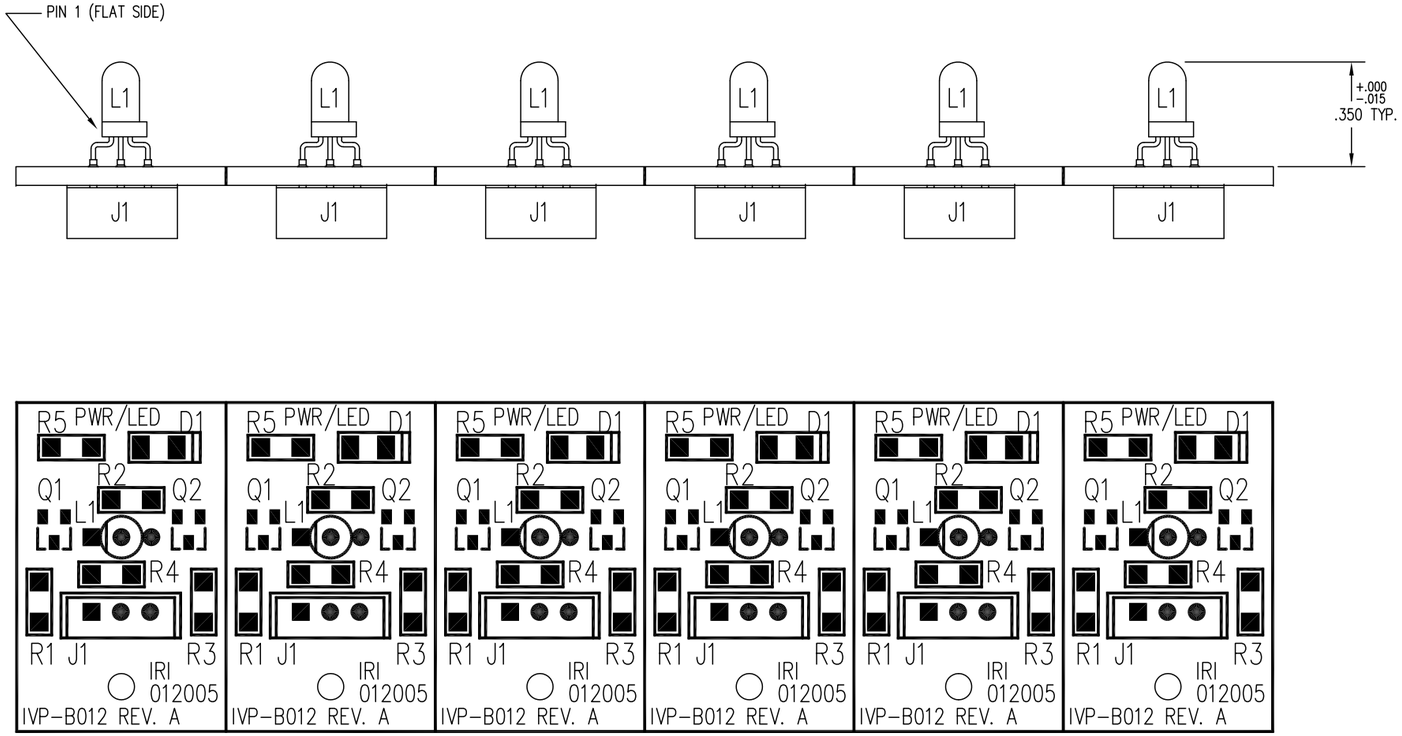


Figure 5-67. IVPAB022 (85B022) Sidecar I/O PCB Assembly Schematic (V2)*



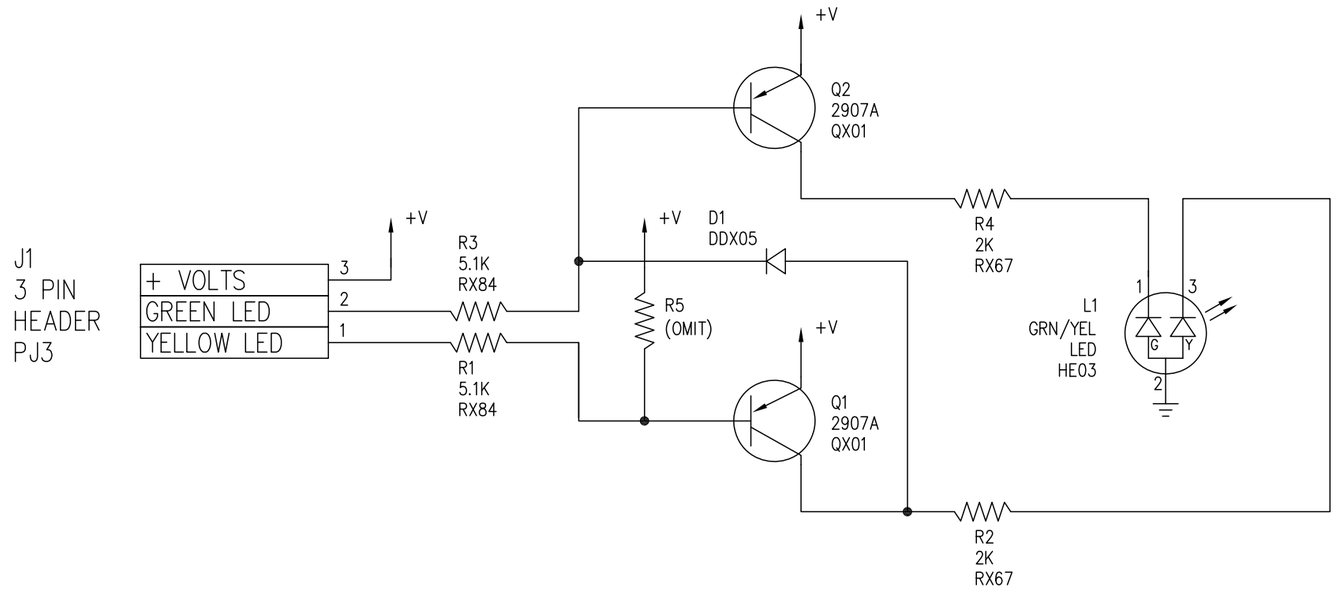
NOTES:

1. LED AT L1 LOCATION TO BE PLACED ON BACKSIDE OF BOARD SPACED AT 0.350" ABOVE BOARD SURFACE.
2. USE MANUFACTURING BOM IVPAB012-C.XLS FOR ASSEMBLY.

REF. ELECTRONIC B.O.M. IVPAB012

			SCALE 4:1	.X=0.05 .XX=0.01 .XXX=0.005	**Iradimed Corporation**
			DRAWN BY	DATE	
			John Nelson	01-20-2005	Drawing Number IVPAB012 — REV B
B	PER ECN 000013	16NOV05	This drawing is the sole property of Iradimed Corp. Any reproduction or use without consent may result in legal arbitration to seek damages.		
A	PROTO. REV'S.	20JAN05			Drawing Name PCBA, POWER INDICATOR — Size C
Rev.	Description	Date			SHEET 1 OF 1

Figure 5-68. IVPAB012 Power Indicator PCB Assembly



			Tolerances unless otherwise noted on dwg.:	.XX = ± .02 .XXX = ± .010 ∠ = ± 2°
			Drawn: JNEL	Date: 11/01/05
			Eng.:	Date:
			Q.A.:	Date:
			R.A.:	Date:
			Mfg.:	Date:
A	PER ECN 000013	16NOV05	Do NOT scale this drawing !	
Rev.	Description	Date	Third Angle Projection	INCH

Revision History

Iradimed Corporation

Title: SCHEMATIC AB012 PCB

Size: B

Part/Dwg. No: 85B012

Rev: A

Cad. Scale: NA

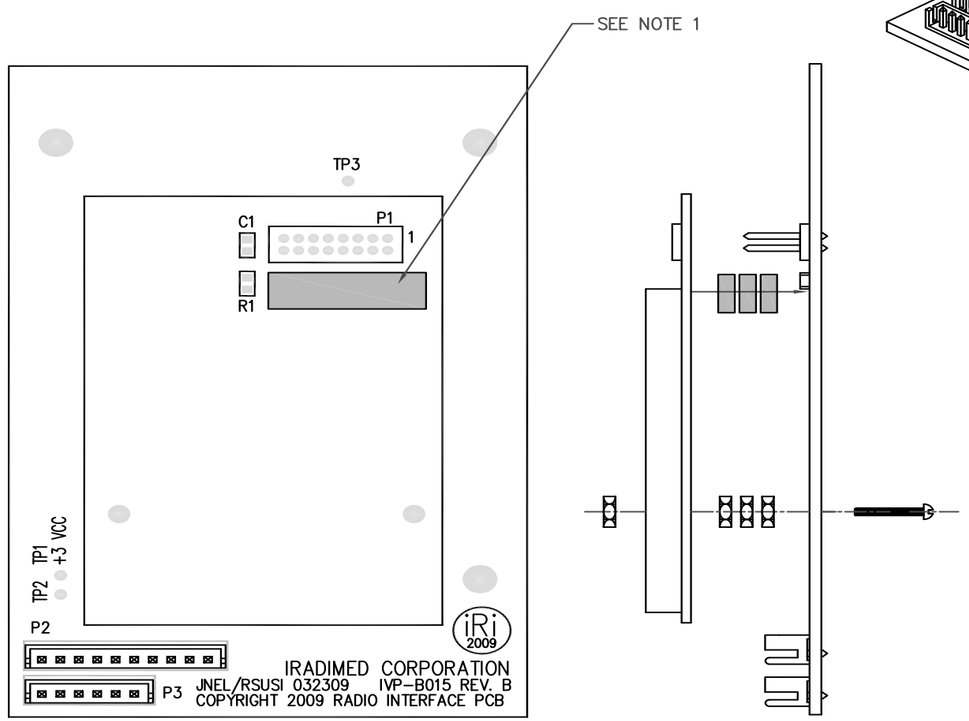
Sheet 1 of 1

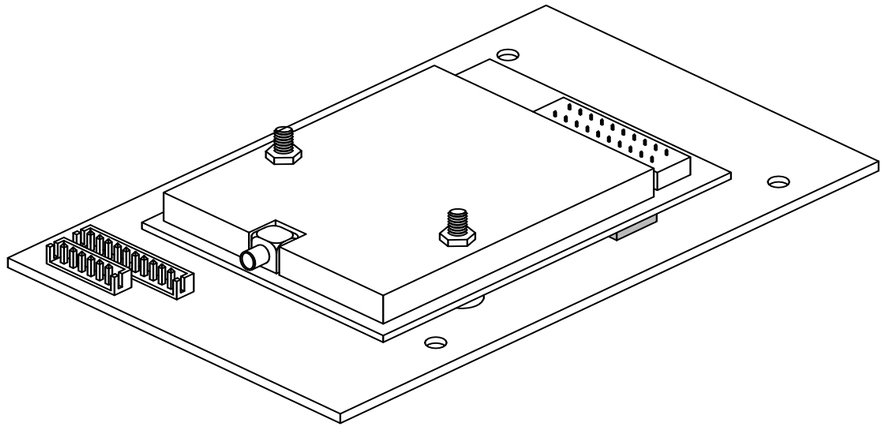
This drawing is the sole property of Iradimed Corporation. Any reproduction or use without written consent may result in legal arbitration to seek damages.

ECN 000006

LF19 Rev. A

Figure 5-69. IVPAB012 (85B012) Power Indicator PCB Assembly Schematic





NOTES:

1. FEED 2 #2-56 SCREWS (NS03) THRU BOARD THEN THREAD 6 #2-56 NUTS (N000) (3 EACH SIDE) TILL TIGHT. APPLY 3 LAYERS OF FOAM TAPE (HM22) CUT TO 1/4 X 1" LONG BELOW CONNECTOR P1 AS SHOWN.

2. MOUNT RADIO MODULE (HE12) FROM FRONT SIDE OF BOARD BY PRESSING ON TO HEADER P1 AND OVER SCREWS (NS03) AND SECURING TO FOAM TAPE. SECURE RADIO MODULE USING 2 #2-56 NUTS (N000) AS SHOWN.

3. USE IRADIMED PCB B015 REV. B AND BOM IVPAB015-F FOR ASSEMBLY.

4. ASSEMBLY MUST MEET IPC-610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

Rev.	Description	Date
F	ECN 000331	12JAN10
E	ECN 000283	24MAR09
D	ECN 000244	24MAR08
C	ECN 000193	27MAR07
B	ECN 000086	09MAY06
A	ECN 000064	15MAR06
0	INITIAL RELEASE	17NOV05

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 17NOV05
Eng.: RES Date: 12JAN10
Q.A.: FXC Date: 12JAN10
R.A.: FXC Date: 12JAN10
Mfg.: TWF Date: 12JAN10

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: PCBA, RADIO MOUNT/INTERCONNECT
Size: C
Part/Dwg. No: IVPAB015
Rev: F
Cad. Scale: 2:1
Sheet 1 of 1

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ECN 000006

LF20 Rev. A

Figure 5-70. IVPAB015 2.4 GHz Radio Interface PCB

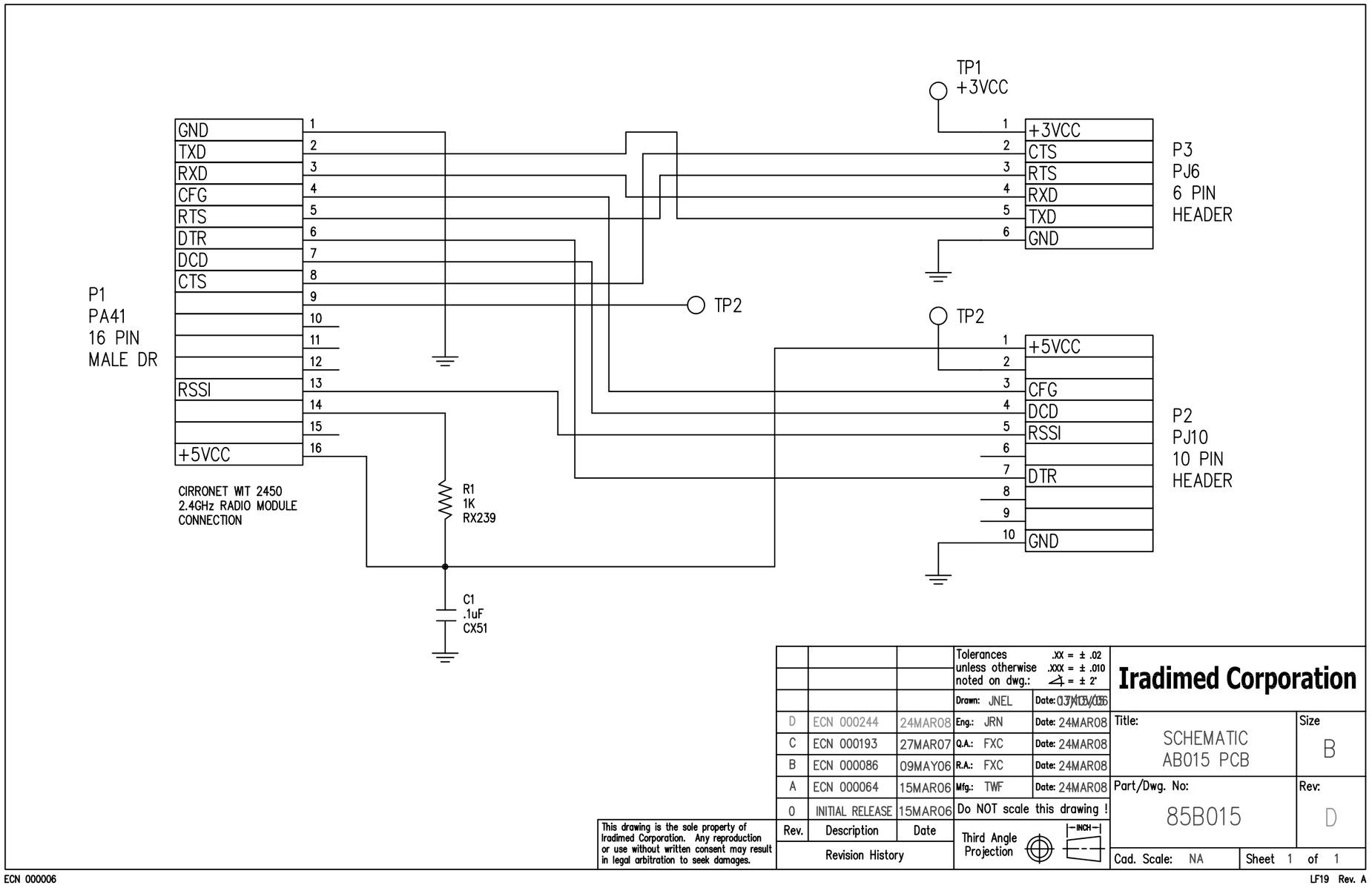
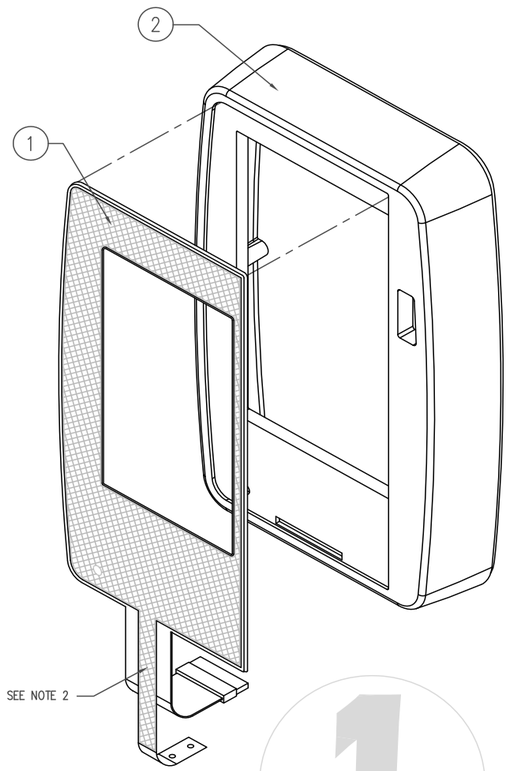
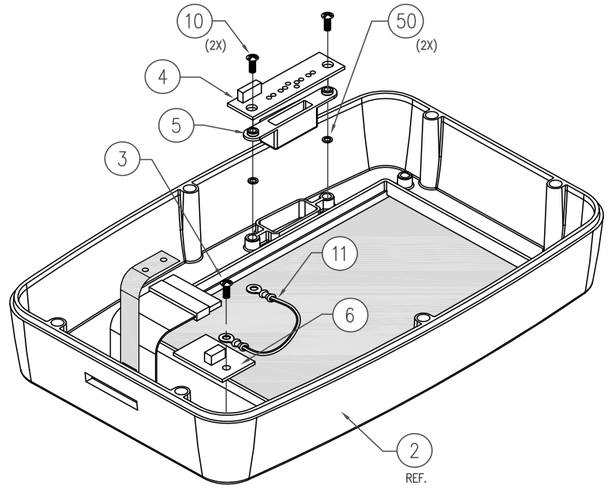
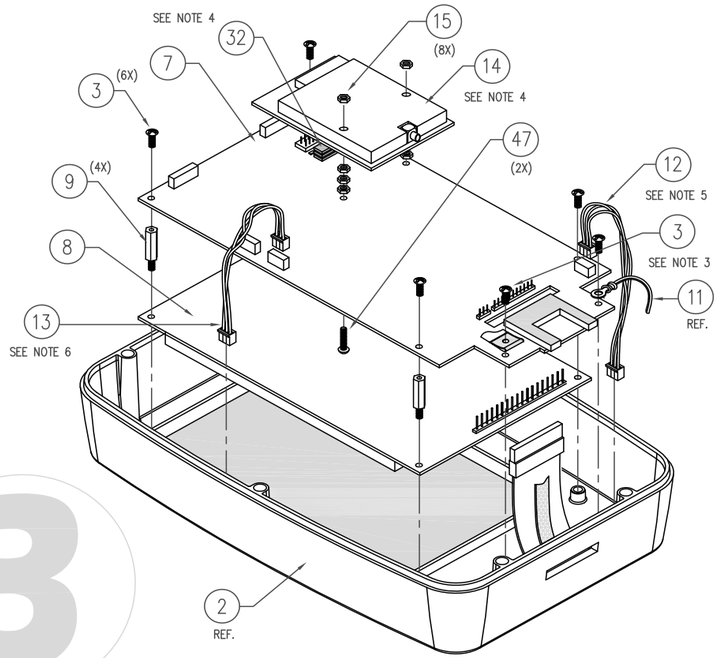


Figure 5-71. IVPAB015 (85B015) 2.4 GHz Radio Interface Schematic







ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. WHEN INSTALLING THE MEMBRANE KEYPAD (ITEM 1), FEED THE CONNECTOR & GROUNDING TAILS THRU SLOT AT BOTTOM OF THE KEYPAD RECESS ON FRONT HOUSING (ITEM 2) ASSURING A SNUG FIT AGAINST THE LOWER EDGE OF THE RECESS AND MEMBRANE KEYPAD.

3. FEED SWITCH TRACE AND GROUNDING TAILS THRU SLOT IN PROCESSOR PCBA (ITEM 7) WHILE PLACING BOARD IN UNIT. PLUG SWITCH TAIL INTO J6 CONNECTOR ON PROCESSOR PCBA. FOLD OVER GROUNDING TAILS FROM KEYPAD AND PLACE CONDUCTIVE SURFACES OF EACH AGAINST EACH OTHER. ATTACH GROUNDING TABS TOGETHER WITH #4–40 SCREW (ITEM 3) AND ATTACH TO PROCESSOR PCB MOUNTING HOLE AS SHOWN FOR GND CONNECTION.

4. TO ATTACH CIRRONET RADIO MODULE (ITEM 14) TO PROCESSOR PCBA (ITEM 7) STACK 3 1/4 X 1" STRIPS OF FOAM TAPE (ITEM 32) BELOW RESISTOR R95 AS SHOWN. ALIGN RADIO OVER CONNECTOR J2 AND SECURE TO PROCESSOR PCBA USING 2 #2–56 SCREWS, AND NUTS (ITEMS 15 AND 47) AS SHOWN.

5. PLUG POWER LED CABLE (ITEM 12) INTO POWER LED PCBA (ITEM 6) AND INTO J8 CONNECTOR ON PROCESSOR PCBA (ITEM 7) PRIOR TO PROCESSOR PCBA MOUNTING. ROUTE CABLES AROUND PCBA SO AS TO NOT PINCH OR DAMAGE CABLE DURING INSTALLATION.

6. PLUG ALARM LED CABLE (ITEM 13) INTO PROCESSOR PCBA (ITEM 7) AT CONNECTOR J4 AND ROUTE TO CONNECTOR ON ALARM LED PCBA (ITEM 4).

*AF ASSEMBLY LABEL CHART (LANGUAGE VERSIONS)
USE IRM BOM'S FOR EACH AF ASSM NUMBER

LANGUAGE	AF ASSM PN	ITEM 43
ENGLISH	AF3855	LB2051
GERMAN	AF3855G	LB2051A
FRENCH	AF3855F	LB2051A
JAPANESE	AF3855J	LB2051A
ITALIAN	AF3855I	LB2051A
SPANISH	AF3855S	LB2051A
SWEDISH	AF3855SW	LB2051A
CHINESE	AF3855CH	LB2051A

ITEM	PART NO.	QTY.	DESCRIPTION
50	NW02	2	WSHR, FLT,.250X.140X.032–NY,KEYSTN 3122
47	NS03	2	SCREW, #2–56 X 5/8LG. PHMS, XR–SS316
46			
45			
44			
15	N000	8	NUT, #2–56 HEX, 02CMSNSS
14	HE12	1	RADIO MODULE, WIT2450, CIRRONET
13	AC02	1	CABLE, ALARM LED, 3850, 3 PIN
12	AC01	1	CABLE, POWER LED, 3850, 3 PIN
11	AC29	1	CABLE, GND TAB, REMOTE DISPLAY,3855
10	NS12	2	SCREW, #4–40 X 1/4LG, PHMS, XR–SS316
9	HM20	4	STANDOFF, M/F, #4–40 X .44LG.–SS316 (BR6979–0.437–34)
8	AS114	1	SUB–ASSM, LCD DISPLAY PCBA
7	IVPAB013	1	PCBA, MICRO uP, REMOTE DISPLAY
6	IVPAB012	1	PCBA, POWER INDICATOR
5	IVP1079	1	ALARM LIGHTPIPE, REMOTE, POLYCARBONATE
4	IVPAB004	1	PCBA, ALARM LED
3	NS11	9	SCREW, #4–40 X 3/16LG. PHMS, XR–SS316
2	IVP1077	1	FRONT HOUSING, REMOTE DISPLAY, ABS
1	IVP1008	1	MEMBRANE KEYPAD, 3850/3855

Rev.	Description	Date
N	ECN 000478	30APR13
M	ECN 000374	31MAR11
L	ECN 000244	24MAR08
K	ECN 000212	02JUL07
J	ECN 000193	27MAR07
H	ECN 000181	16JAN07
G	ECN 000127	01SEP06

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°
Do NOT scale this drawing !
Third Angle Projection

Drawn: JRN Date: 15DEC05
Eng.: JRN Date: 30APR13
Q.A.: FXC Date: 30APR13
R.A.: FXC Date: 30APR13
Mfg.: TWF Date: 30APR13

Iradimed Corporation

Title: ASSEMBLY, 3855 MR WIRELESS REMOTE
Size: D
Part/Dwg. No: AF3855
Rev: N
Cad. Scale: NA
Sheet 1 of 4

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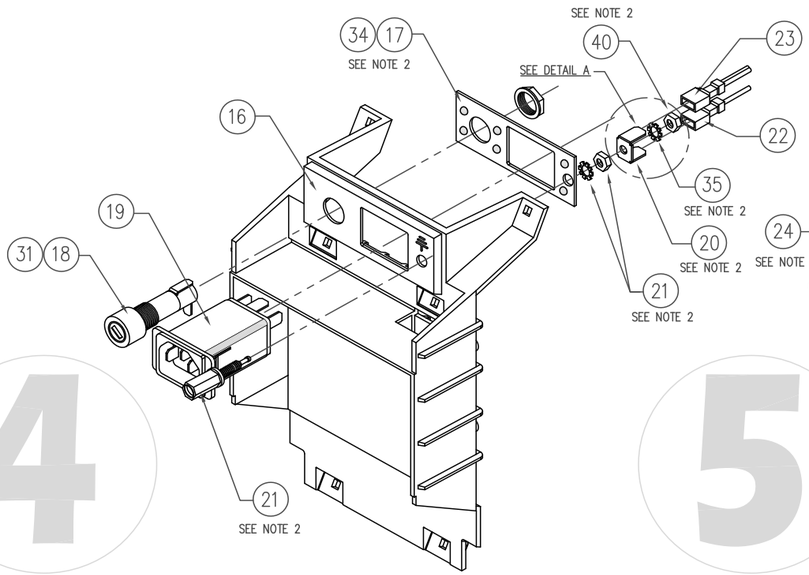
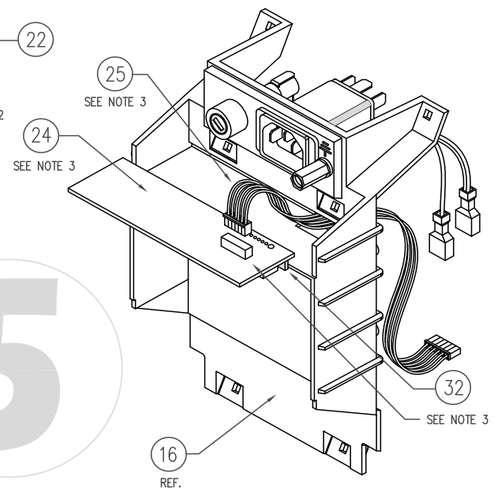
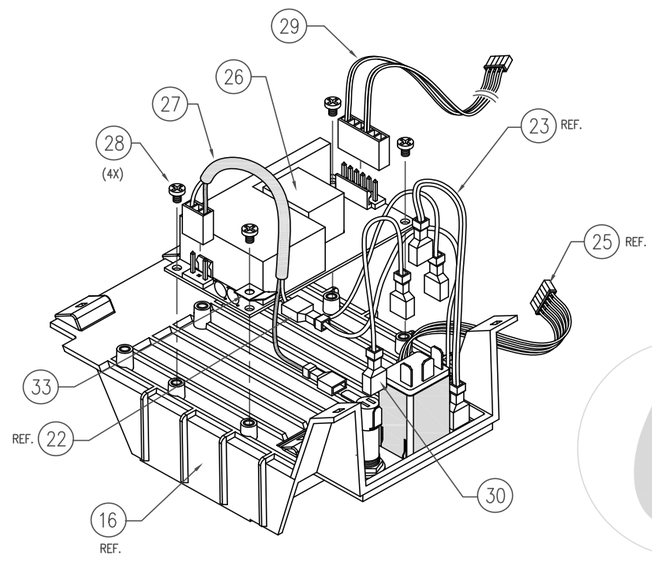
LF21 Rev. A

Figure 5-72. 3855 Remote Display/Charger Assembly Page 1 of 4





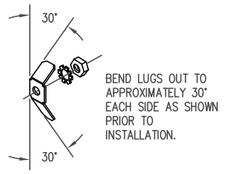


ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. APPLY 6 GLUE DOTS (ITEM 34) TO BACK OF POWER PLATE (ITEM 17) IN AREAS SHOWN PRIOR TO INSTALLATION INTO POWER BRACKET (ITEM 16). ASSEMBLE FUSE HOLDER (ITEM 18) AS SHOWN SECURING WITH CAPTIVE NUT PROVIDED. ASSEMBLE BINDING POST (ITEM 21) THRU POWER BARACKET AND POWER PLATE AND SECURE WITH LOCK WASHER AND #8 X 32 NUT PROVIDED WITH POST. INSTALL DUAL GROUNDING LUG (ITEM 20) WITH #8 LOCK WASHER (ITEM 35) OVER THREADS OF BINDING POST AS SHOWN AND SECURE WITH #8 X 32 NUT (ITEM 40). SEE DETAIL A BELOW FOR BENDING INSTRUCTIONS OF DUAL GROUNDING LUG PRIOR TO INSTALLATION. ATTACH CABLES (ITEM 22 AND 23) AS SHOWN. FINALLY INSTALL AC POWER CONNECTOR (ITEM 19) THRU BRACKET AND PLATE ENSURING SNUG FIT.

3. FEED BATTERY CABLE (ITEM 25) THRU SLOT IN POWER BRACKET AS SHOWN LEAVING ONLY ENOUGH LENGTH TO PLUG INTO BATTERY PCBA (ITEM 24). PRIOR TO INSTALLATION, CLIP PINS AT CONNECTOR P2 FLUSH TO PCB ON FRONT SIDE TO ENSURE FLUSH FIT AGAINST PLASTIC OF POWER BRACKET. CUT A PIECE OF FOAM TAPE (ITEM 32) THE SIZE OF CONNECTOR P1 BASE AND APPLY TO BOTTOM OF BATTERY CONNECTOR. POSITION BATTERY PCBA INTO FLAT AREA PROVIDED ENSURING CONNECTOR IS LOCATED THRU SLOT IN POWER BRACKET AND PCBA SITS FLUSH AGAINST THE BRACKET WALL. ONCE PCBA IS SEATED INTO BRACKET SECURELY PULL ANY EXCESS BATTERY CABLE THRU SLOT MAKING SURE CABLE IS FLAT AND NONE OF THE WIRES ARE PINCHED.



BEND LUGS OUT TO APPROXIMATELY 30° EACH SIDE AS SHOWN PRIOR TO INSTALLATION.

DETAIL A

ITEM	PART NO.	QTY.	DESCRIPTION
40	N003	1	NUT, HEX, #8-32 REG SERIES-SS 316
35	NW05	1	WSHR, LCK, #8 INT. TOOTH-SS316
34	M020	6	GLUE DOTS, MINI 3/16", 300 PER CRTN
33	PA40	1	GROUND LUG, #6 X .250 X .032, AMP #42822-4
32	HM22	1.5	TAPE, FOAM, SINGLE-SIDED, .06 THK. X 1.00 WD., 3M #4016-1
31	HE14	1	FUSE, 1A, BK/3AGC.1 0312001.H XP
30	AC15	1	CABLE, AC FILTER TO FUSE, 1120, 1 PIN
29	AC19	1	CABLE, POWER, 3855, 2/4 PIN
28	NS21	10	SCREW, #6-32 X 3/16LG. PHMS, XR-SS316
27	AC33	1	CABLE, AC TO POWER SUPPLY, 3855, 2 PIN
26	IVP2102	1	XPIQ 40 WATT, 18VDC MEDICAL SUPPLY ECM40
25	AC18	1	CABLE, BATTERY, 3855, 6 PIN
24	IVPAB006	1	PCBA, BATTERY INTERCONNECT
23	AC21	1	CABLE, AC FILTER TO GND, 1120, 1 PIN
22	AC30	1	CABLE, GND TO GND, REMOTE DISPLAY, 3855
21	PA51	1	BNDG. POST, #8-32/BN. JACK, HH SMITH 137
20	PA50	1	GND. LUG, DUAL #8 X .25, AMP 42802-1
19	HE05	1	CONN., AC PWR. FILTER, SCHURTER 693-5110
18	HE06	1	HOLDER, FUSE, LITTLEFUSE H3453HS1
17	IVP1090	1	POWER PLATE, REMOTE DISPLAY, 3855
16	IVP1080	1	POWER BRKT, REMOTE DISPLAY, 3855, 94V0

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Rev.	Description	Date
	Revision History	

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn:	JRN	Date: 15DEC05
Eng.:	JRN	Date: 30APR13
Q.A.:	FXC	Date: 30APR13
R.A.:	FXC	Date: 30APR13
Mfg.:	TWF	Date: 30APR13

SEE SHEET 1

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: ASSEMBLY, 3855 MR WIRELESS REMOTE

Size: D

Part/Dwg. No: AF3855

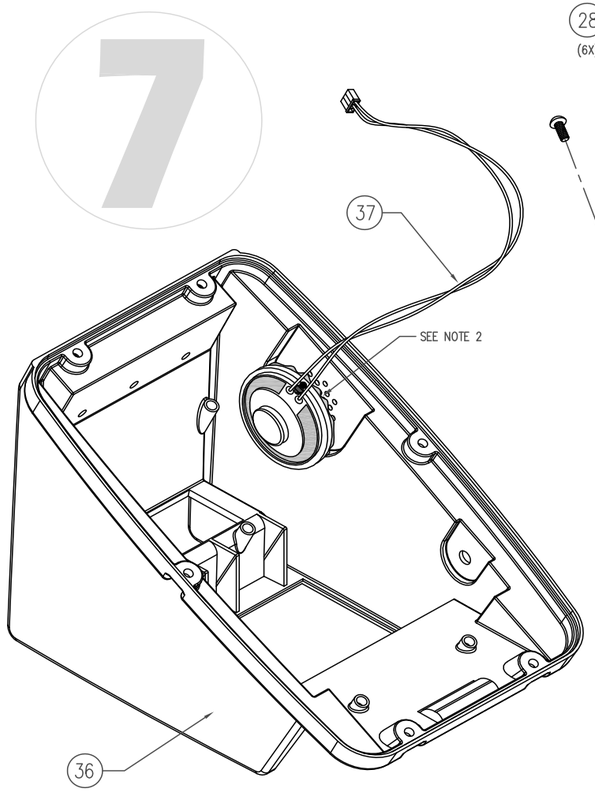
Rev: N

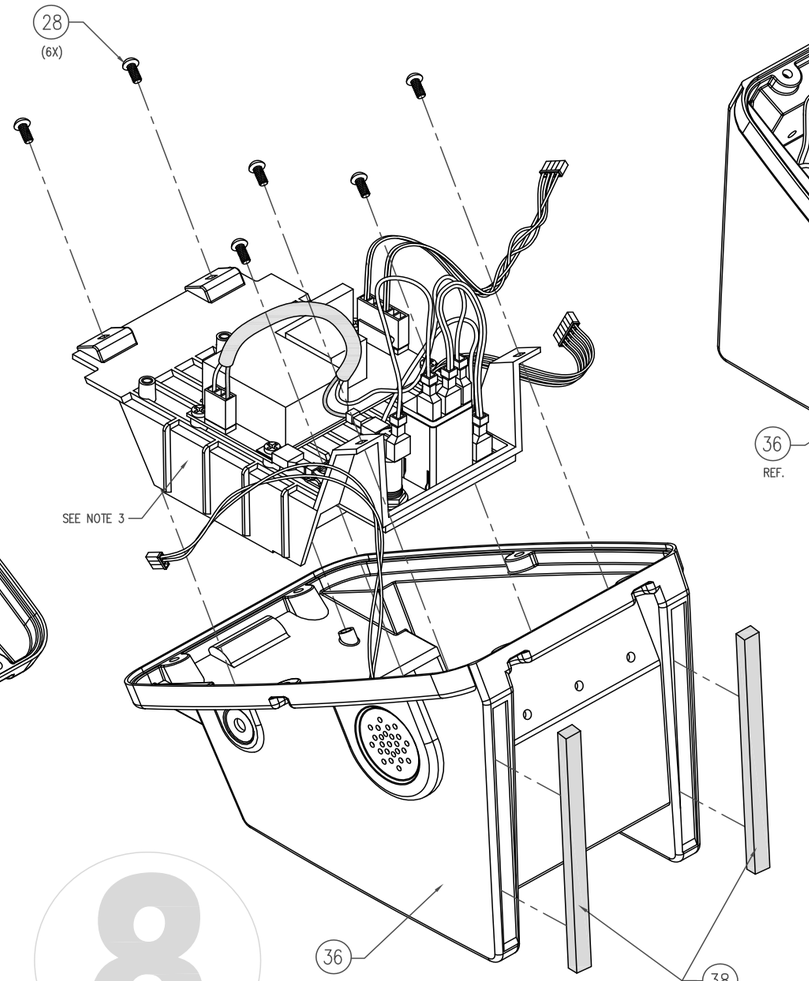
Cad. Scale: NA

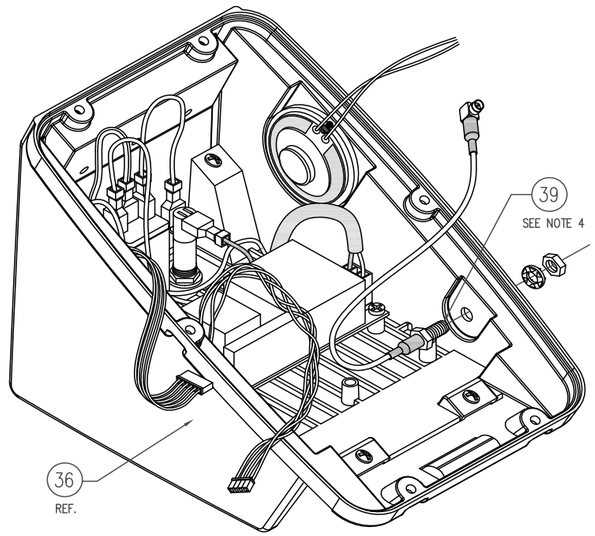
Sheet 2 of 4

LF21 Rev. A

Figure 5-73. 3855 Remote Display/Charger Assembly Page 2 of 4







ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. APPLY A BEAD OF RTV SEALANT TO THE OUTER EDGE OF THE SPEAKER AS SHOWN. PRESS SPEAKER INTO THE PROVIDED CAVITY IN REAR HOUSING (ITEM 35). ALLOW SUFFICIENT DRY TIME BEFORE CONTINUING TO THE NEXT ASSEMBLY STEPS.

3. ALIGN POWER BRACKET ASSEMBLY OVER REAR HOUSING SO AS TO POSITION THE 6 STANDOFFS WITH THE APPROPRIATE SCREW HOLE IN BRACKET. FIT ASSEMBLY INTO HOUSING AND INSURE BRACKET HAS SEATED PROPERLY. SECURE POWER BRACKET WITH 6 #6-32 SCREWS (ITEM 28).

4. ALIGN ANTENNA CABLE (ITEM 38) THROUGH HOLE IN REAR HOUSING (ITEM 35) AS SHOWN AND SECURE WITH LOCK WASHER AND NUT PROVIDED.

ITEM	PART NO.	QTY.	DESCRIPTION
39	AC28	1	CABLE, ANT, RG178, AERO-COMM 1300-00023
38	HM38	2	STRIP, RUBBER ADHESIVE, .31 X .12 THK
37	AS105	1	SUB-ASSEMBLY, REMOTE DISPLAY SPEAKER
36	IVP1078	1	REAR HSNG, REMOTE DISPLAY, 3855, 94V0

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Iradimed Corporation

Drawn: JRN Date: 15DEC05
Eng.: JRN Date: 30APR13
Q.A.: FXC Date: 30APR13
P.A.: FXC Date: 30APR13
Mfg.: TWF Date: 30APR13

Title: ASSEMBLY, 3855 MR WIRELESS REMOTE
Size: D
Part/Dwg. No: AF3855
Rev: N

SEE SHEET 1
Do NOT scale this drawing !

Rev.	Description	Date
Revision History		

Third Angle Projection — INCH

Cad. Scale: NA Sheet 3 of 4

LF21 Rev. A

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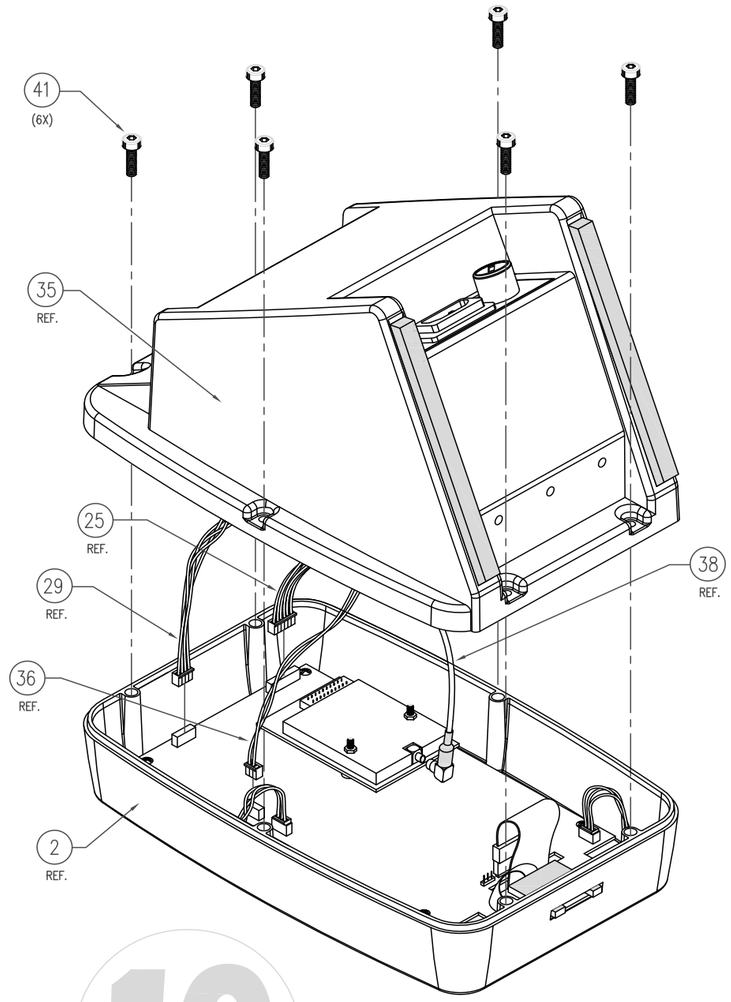
Figure 5-74. 3855 Remote Display/Charger Assembly Page 3 of 4



SEE ASSEMBLY NOTE 2 THIS PAGE

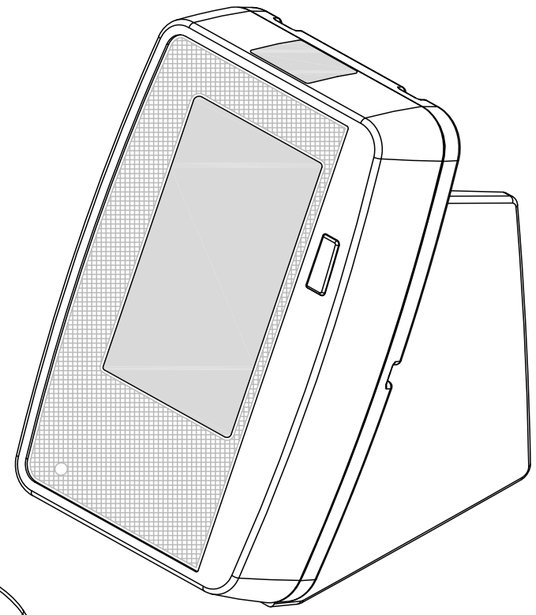
ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

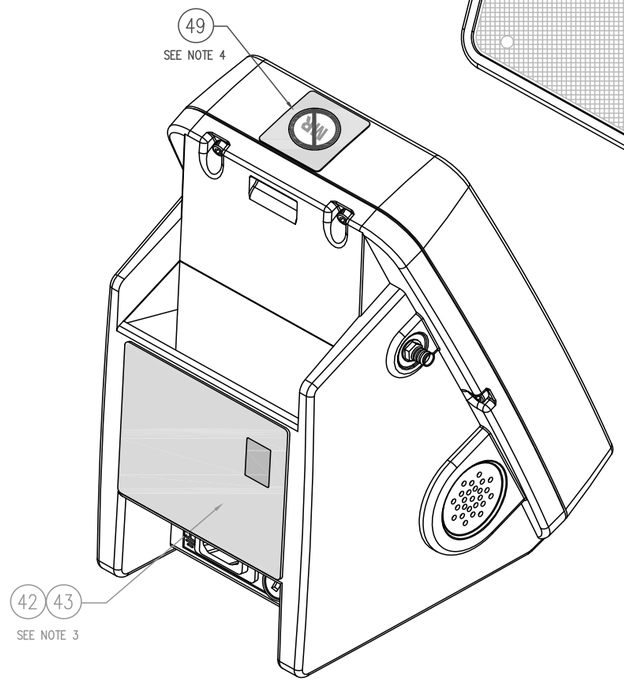
2. ASSEMBLE REAR HOUSING ASSEMBLY (REF. ITEM 35) TO FRONT HOUSING ASSEMBLY (REF. ITEM 2) BY FIRST ATTACHING RELATED CABLES FROM REAR ASSEMBLY TO CORRESPONDING CONNECTORS ON PROCESSOR PCBA. ATTACH BATTERY CABLE (REF. ITEM 25) TO PROCESSOR CONNECTOR P1. ATTACH POWER CABLE (REF. ITEM 29) TO PROCESSOR CONNECTOR J5. ATTACH SPEAKER ASSEMBLY CABLE (REF. ITEM 36) TO PROCESSOR CONNECTOR J3. ATTACH ANTENNA CABLE (REF. ITEM 38) TO CONNECTOR ON CIRRONET RADIO MODULE MOUNTED ON PROCESSOR PCBA. ENSURE ALL CABLES ARE SEATED PROPERLY AND ARRANGED TO NOT BE PINCHED AS REAR ASSEMBLY IS LOWERED ONTO FRONT HOUSING. ATTACH REAR HOUSING TO FRONT USING 6 #8-32 SCREWS (ITEM 41) AS SHOWN.

3. PRE-PRINT REF/SERIAL (LB2016) USING WASP WPL305 PRINTER, AND ATTACH TO BACK OF SERIAL / INSTRUCTION LABEL (ITEM 43) WITH NUMBERS SHOWING THRU CLEAR ADHESIVE WINDOW OF LABEL.

4. ATTACH MR NON-COMPATIBILITY LABEL (ITEM 49) TO TOP OF ASSEMBLY AS SHOWN.



REFERENCE VIEW OF ASSEMBLED AF3855



ITEM	PART NO.	QTY.	DESCRIPTION
49	LB2022	1	LABEL, MR NON-COMPATIBLE SYMBOL 3855
43	LB2051*	1	LABEL, REMOTE INSTRUCTION/SERIAL
42	LB2016	1	LABEL, RATING/SERIAL REMOTE DISPLAY, 3855
41	NS32	6	SCREW,#8-32 X 1/2LG. PHMS, XR-SS316

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Iradimed Corporation

Drawn: JRN	Date: 15DEC05	
Eng.: JRN	Date: 30APR13	Title: ASSEMBLY, 3855 MR WIRELESS REMOTE
Q.A.: FXC	Date: 30APR13	Size: D
R.A.: FXC	Date: 30APR13	
Mfg.: TWF	Date: 30APR13	Part/Dwg. No: AF3855
SEE SHEET 1		Rev: N
Do NOT scale this drawing !		

Third Angle Projection

Cod. Scale: NA | Sheet 4 of 4

LF21 Rev. A

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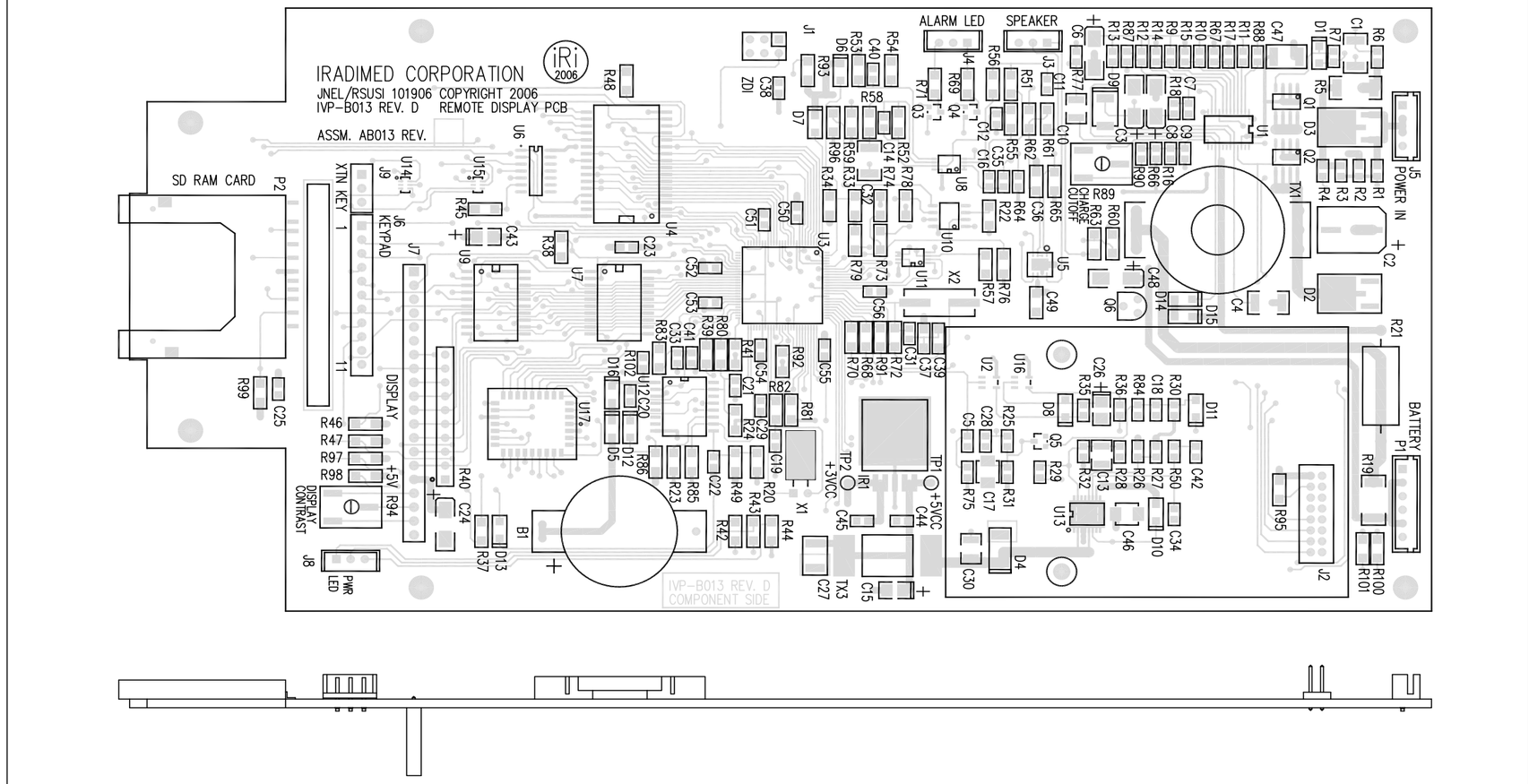
Revision History

Rev.	Description	Date

10

Figure 5-75. 3855 Remote Display/Charger Assembly Page 4 of 4



NOTES:

1. INSTALL CONNECTOR AT LOCATION J7 FROM THE BACKSIDE OF BOARD.

2. ASSEMBLY REVISION G WILL USE BLANK PCB IVPB013 REV. D. USE IRADIMED BOM REV. G FOR LIST OF ITEM NUMBERS AND COMPONENTS.

3. PCBA TO BE SUPPLIED WITH SOFTWARE INSTALLED. SEE SI001 FOR PROGRAMMING INSTRUCTIONS.

Rev.	Description	Date
G	ECN 000211	27JUN07
F	ECN 000145	20AUG06
E	ECN 000117	20AUG06
D	ECN 000092	16MAY06
C	ECN 000078	19APR06
B	ECN 000037	31JAN06
A	PROD RELEASE	07NOV05
0	PROTOTYPE	14AUG05

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 14AUG05
Eng.: RES Date: 27JUN07
Q.A.: FXC Date: 27JUN07
R.A.: FXC Date: 27JUN07
Mfg.: TWF Date: 27JUN07

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Third Angle Projection

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Iradimed Corporation

Title: ASSEMBLY: PROCESSOR PCB REMOTE DISPLAY 3855

Size: C

Part/Dwg. No: IVPAB013

Rev: G

Cad. Scale: 2:1

Sheet 1 of 1

LF20 Rev. A

Figure 5-76. IVPAB013 Remote Display Processor PCBA

REVISION	DESCRIPTION	DATE	DRAWN BY
A	CHANGES FOR INITIAL PILOT PRODUCTION RELEASE	07NOV05	JNELSON
B	CHANGES PER ECN 000037	31JAN06	JNELSON
C	CHANGES PER ECN 000078	19APR06	JNELSON
D	CHANGES PER ECN 000117	20AUG06	JNELSON
F	CHANGES PER ECN 000145	25OCT06	JNELSON
G	CHANGES PER ECN 000211	27JUN07	JNELSON

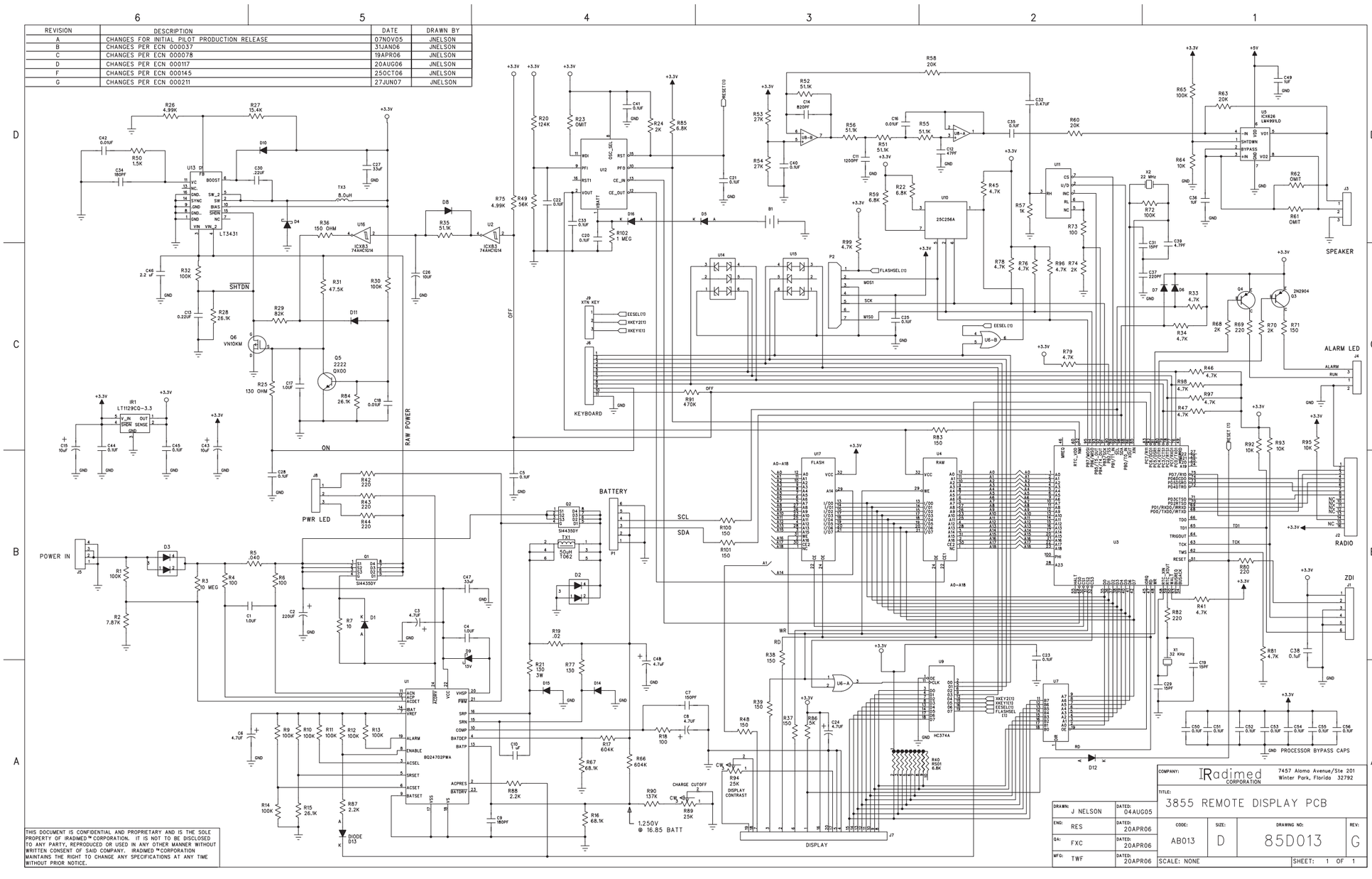

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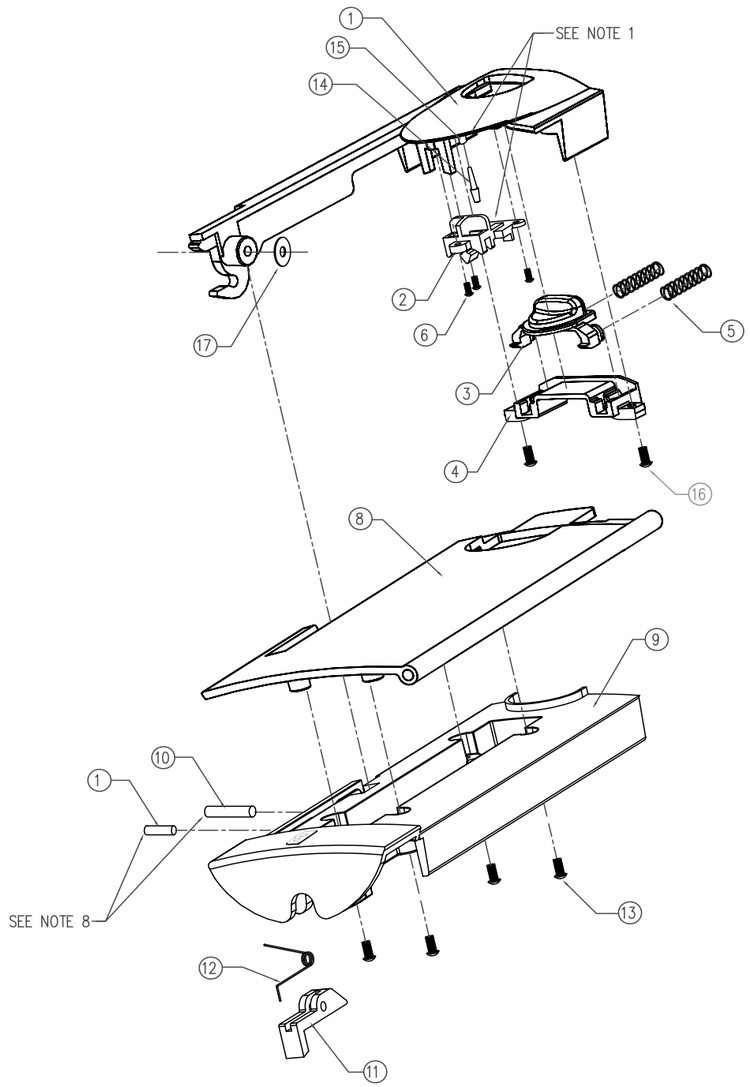
Figure 5-77. IVPAB013 (85D013) Remote Display Processor Schematic



ASSEMBLY NOTES:

1. USING 3 #2–56 X 3/16 PAN HD. SCREWS (ITEM 6), ATTACH CLAMP CLIP (ITEM 2) TO THE BACK OF CLAMP HANDLE (ITEM 1) AS SHOWN. INSPECT AND REMOVE ANY SHARP EDGES FROM HANDLE PARABOLA USING FINE GRIT SANDPAPER. DO NOT OVER–TIGHTEN SCREWS.

2. APPLY A COUPLE DROPS OF LOCTITE 380 (BLACK MAX (ITEM 15)) INTO HOLE ON UNDERSIDE OF CLAMP HANDLE (ITEM 1). QUICKLY PRESS RUBBER PIN (ITEM 14) INTO HOLE AS SHOWN AND AND HOLD FOR 2 SECONDS. IMMEDIATELY WIPE AWAY ANY EXCESS ADHESIVE AROUND BASE OF RUBBER PIN.

3. PLACE CLAMP LATCH SLIDER (ITEM 3) ONTO CLAMP LATCH COVER (ITEM 4) ALONG WITH 2 COMPRESSION SPRINGS (ITEM 5) (COMPRESS AND PLACE INTO COVER HOLDING SLIDER IN PLACE). PLACE THIS ASSEMBLY IN AREA PROVIDED IN BACKSIDE OF CLAMP (ASSURE BUTTON SIDE OF SLIDER IS PROTRUDING THRU CLAMP) AND SECURE WITH 2 SCREWS (ITEM 16).

4. ALIGN CLAMP HANDLE (ITEM 1) AND WAVE WASHER (ITEM 17) INTO DOOR PRESSURE PLATE (ITEM 9) BY PLACING ROUNDED BEARING END OF CLAMP HANDLE AND WASHER INTO THE U–SHAPED CUTOUT IN THE FACE OF THE CLEAR PRESSURE PLATE. PRESS FIT THE BRASS CLAMP PIN (ITEM 7) THRU FROM THE OUTSIDE OF THE PLASTIC PRESSURE PLATE, THRU THE HOLE OF THE CLAMP HANDLE, THRU WASHER AND THEN THRU THE OTHER SIDE OF THE PLASTIC UNTIL PIN STOPS AGAINST INSIDE WALL OF PRESSURE PLATE.

5. NEXT PLACE THE LATCH PAW TORSION SPRING (ITEM 12) INTO THE DOOR LATCH PAW (ITEM 11) AS SHOWN ALIGNING THE HOLES OF THE LATCH PAW WITH THAT OF THE SPRING. SLIDE LATCH PAW AND SPRING (COMPRESSING SPRING WITH FINGER) FROM BACKSIDE OF PRESSURE PLATE (ITEM 9) UNTIL HOLES LINE UP WITH THE SIDE WALL. PRESS FIT BRASS PIN (ITEM 10) THRU OUTSIDE WALL GUIDING IT THRU THE LATCH PAW AND TORSION SPRING UNTIL SEATING IT FLUSH AGAINST THE PRESSURE PLATE INSIDE WALL.

6. ONCE THE CLAMP HANDLE AND PAW ARE INSTALLED IN THE PRESSURE PLATE, ROTATE CLAMP OUTWARDS AND UP TO APPROXIMATELY A 45° ANGLE. THE CLAMP HANDLE SHOULD LATCH AGAINST THE PAW AND BE HELD IN PLACE. ALIGN DOOR FRONT (ITEM 8) OVER PRESSURE PLATE AS SHOWN ALIGNING THE 4 BOSSES WITH THIER APPROPRIATE CHANNELS IN THE PRESSURE PLATE. USING 4 #4–40 X 1/4LG. SCREWS (ITEM 13) ATTACH THE DOOR AND PLATE TOGETHER.

7. ONCE DOOR IS IN PLACE, PRESS FOOT OF LATCH PAW FROM BOTTOM SIDE ALLOWING THE CLAMP HANDLE TO ROTATE BACK TO ITS CLOSED AND LOCKED POSITION. INSURE THAT ALL ASSEMBLIES HAVE CLEARANCE AS THE HANDLE ROTATES INTO PLACE.

8. ONCE ASSEMBLY IS FINISHED, APPLY A SMALL AMOUNT OF 2 PART EPOXY TO THE ENDS OF BRASS PINS (ITEM 7 AND 10) TO PREVENT FROM PUSHING OUT DURING USE.

ITEM	PART NO.	QTY.	DESCRIPTION
17	NW06	1	WSHR, WAVE, 18–8SS, .208 ID X .385 OD
16	NS13	2	SCR, #4–40 X 5/16LG. PHMS, SS (316)
15	M044	0.01	LOCKTITE 380, INSTANT ADHESIVE, BLACK
14	IVP1099	1	DOOR CLAMP PIN, 3850/3851
13	NS12	4	SCREW, #4–40 X 1/4LG. PHMS, XR–SS316
12	HM16	1	SPRING, TORSION, DOOR LATCH PAW
11	IVP1038	1	PAW, DOOR LATCH
10	HM15	1	PIN, DOOR LATCH PAW
9	IVP1072T	1	PRESSURE PLATE, DOOR, 3851 TAPER
8	IVP1073AP	1	DOOR, FRONT, LATCHING, 3851, PAINTED
7	HM14	1	PIN, CLAMP HANDLE
6	NS01	3	SCREW, #2–56 X 3/16LG. PHMS, XR–SS316
5	HM17	2	SPRING, SPRING ARM COMPRESSION
4	IVP1095	1	CLAMP LATCH, COVER, 3850–3851
3	IVP1094	1	CLAMP LATCH, SLIDER, 3850–3851
2	IVP1068	1	CLAMP CLIP, DOOR
1	IVP1074A	1	CLAMP HANDLE, DOOR, 3851, LATCHED

Rev.	Description	Date
C	ECN 000371	26JAN11
B	ECN 000346	10MAY10
A	ECN 000160	18MAY07

Revision History

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Drawn: JRN Date: 04DEC06
Eng.: RES Date: 26JAN11
Q.A.: FXC Date: 26JAN11
R.A.: FXC Date: 26JAN11
Mfg.: TWF Date: 26JAN11

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: SUB–ASSEM, FRONT DOOR, 3851, LATCHING

Size: C

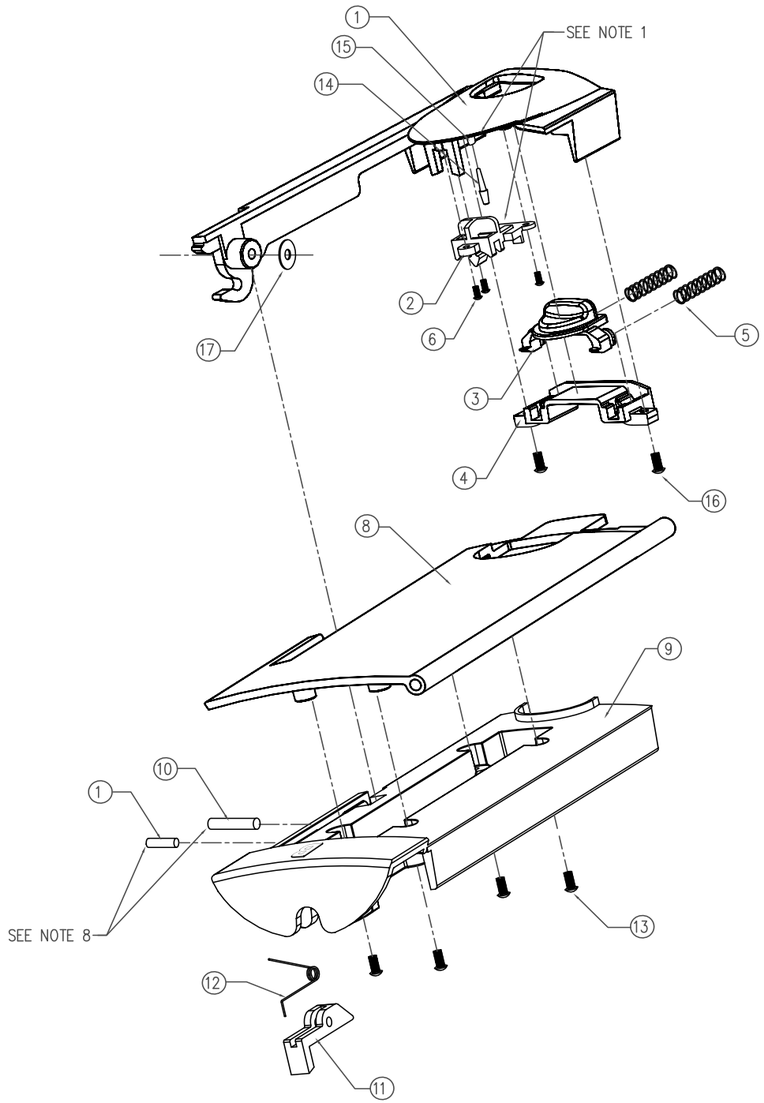
Part/Dwg. No: AS113

Rev: C

Cad. Scale: NA Sheet 1 of 1

LF20 Rev. A

Figure 5-78. AS113 Sub-Assembly, 3851, Door, Latching



ASSEMBLY NOTES:

1. USING 3 #2–56 X 3/16 PAN HD. SCREWS (ITEM 6), ATTACH CLAMP CLIP (ITEM 2) TO THE BACK OF CLAMP HANDLE (ITEM 1) AS SHOWN. INSPECT AND REMOVE ANY SHARP EDGES FROM HANDLE PARABOLA USING FINE GRIT SANDPAPER. DO NOT OVER–TIGHTEN SCREWS.

2. APPLY A COUPLE DROPS OF LOCTITE 380 (BLACK MAX (ITEM 15)) INTO HOLE ON UNDERSIDE OF CLAMP HANDLE (ITEM 1). QUICKLY PRESS RUBBER PIN (ITEM 14) INTO HOLE AS SHOWN AND AND HOLD FOR 2 SECONDS. IMMEDIATELY WIPE AWAY ANY EXCESS ADHESIVE AROUND BASE OF RUBBER PIN.

3. PLACE CLAMP LATCH SLIDER (ITEM 3) ONTO CLAMP LATCH COVER (ITEM 4) ALONG WITH 2 COMPRESSION SPRINGS (ITEM 5) (COMPRESS AND PLACE INTO COVER HOLDING SLIDER IN PLACE). PLACE THIS ASSEMBLY IN AREA PROVIDED IN BACKSIDE OF CLAMP (ASSURE BUTTON SIDE OF SLIDER IS PROTRUDING THRU CLAMP) AND SECURE WITH 2 SCREWS (ITEM 16).

4. ALIGN CLAMP HANDLE (ITEM 1) AND WAVE WASHER (ITEM 17) INTO DOOR PRESSURE PLATE (ITEM 9) BY PLACING ROUNDED BEARING END OF CLAMP HANDLE AND WASHER INTO THE U–SHAPED CUTOUT IN THE FACE OF THE CLEAR PRESSURE PLATE. PRESS FIT THE BRASS CLAMP PIN (ITEM 7) THRU FROM THE OUTSIDE OF THE PLASTIC PRESSURE PLATE, THRU THE HOLE OF THE CLAMP HANDLE, THRU WASHER AND THEN THRU THE OTHER SIDE OF THE PLASTIC UNTIL PIN STOPS AGAINST INSIDE WALL OF PRESSURE PLATE.

5. NEXT PLACE THE LATCH PAW TORSION SPRING (ITEM 12) INTO THE DOOR LATCH PAW (ITEM 11) AS SHOWN ALIGNING THE HOLES OF THE LATCH PAW WITH THAT OF THE SPRING. SLIDE LATCH PAW AND SPRING (COMPRESSING SPRING WITH FINGER) FROM BACKSIDE OF PRESSURE PLATE (ITEM 9) UNTIL HOLES LINE UP WITH THE SIDE WALL. PRESS FIT BRASS PIN (ITEM 10) THRU OUTSIDE WALL GUIDING IT THRU THE LATCH PAW AND TORSION SPRING UNTIL SEATING IT FLUSH AGAINST THE PRESSURE PLATE INSIDE WALL.

6. ONCE THE CLAMP HANDLE AND PAW ARE INSTALLED IN THE PRESSURE PLATE, ROTATE CLAMP OUTWARDS AND UP TO APPROXIMATELY A 45° ANGLE. THE CLAMP HANDLE SHOULD LATCH AGAINST THE PAW AND BE HELD IN PLACE. ALIGN DOOR FRONT (ITEM 8) OVER PRESSURE PLATE AS SHOWN ALIGNING THE 4 BOSSES WITH THIER APPROPRIATE CHANNELS IN THE PRESSURE PLATE. USING 4 #4–40 X 1/4LG. SCREWS (ITEM 13) ATTACH THE DOOR AND PLATE TOGETHER.

7. ONCE DOOR IS IN PLACE, PRESS FOOT OF LATCH PAW FROM BOTTOM SIDE ALLOWING THE CLAMP HANDLE TO ROTATE BACK TO ITS CLOSED AND LOCKED POSITION. INSURE THAT ALL ASSEMBLIES HAVE CLEARANCE AS THE HANDLE ROTATES INTO PLACE.

8. ONCE ASSEMBLY IS FINISHED, APPLY A SMALL AMOUNT OF 2 PART EPOXY TO THE ENDS OF BRASS PINS (ITEM 7 AND 10) TO PREVENT FROM PUSHING OUT DURING USE.

ITEM	PART NO.	QTY.	DESCRIPTION
17	NW06	1	WSHR, WAVE, 18–8SS, .208 ID X .385 OD
16	NS13	2	SCR, #4–40 X 5/16LG. PHMS, SS (316)
15	M044	0.01	LOCKTITE 380, INSTANT ADHESIVE, BLACK
14	IVP1099OP	1	DOOR PIN, OPTIC 3850/3851
13	NS12	4	SCREW, #4–40 X 1/4LG. PHMS, XR–SS316
12	HM16	1	SPRING, TORSION, DOOR LATCH PAW
11	IVP1038	1	PAW, DOOR LATCH
10	HM15	1	PIN, DOOR LATCH PAW
9	IVP1072T	1	PRESSURE PLATE, DOOR, 3851 TAPER
8	IVP1073AP	1	DOOR, FRONT, LATCHING, 3851, PAINTED
7	HM14	1	PIN, CLAMP HANDLE
6	NS01	3	SCREW, #2–56 X 3/16LG. PHMS, XR–SS316
5	HM17	2	SPRING, SPRING ARM COMPRESSION
4	IVP1095	1	CLAMP LATCH, COVER, 3850–3851
3	IVP1094	1	CLAMP LATCH, SLIDER, 3850–3851
2	IVP1068	1	CLAMP CLIP, DOOR
1	IVP1074A	1	CLAMP HANDLE, DOOR, 3851, LATCHED

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Rev.	Description	Date
A	ECN 000373	14FEB11

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

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Mfg.:	TWF	Date: 14FEB11

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Third Angle Projection

Iradimed Corporation

Title: SUB–ASSEM, FRNT DR, 3851, LATCH, OPTIC

Size: C

Part/Dwg. No: AS113OP

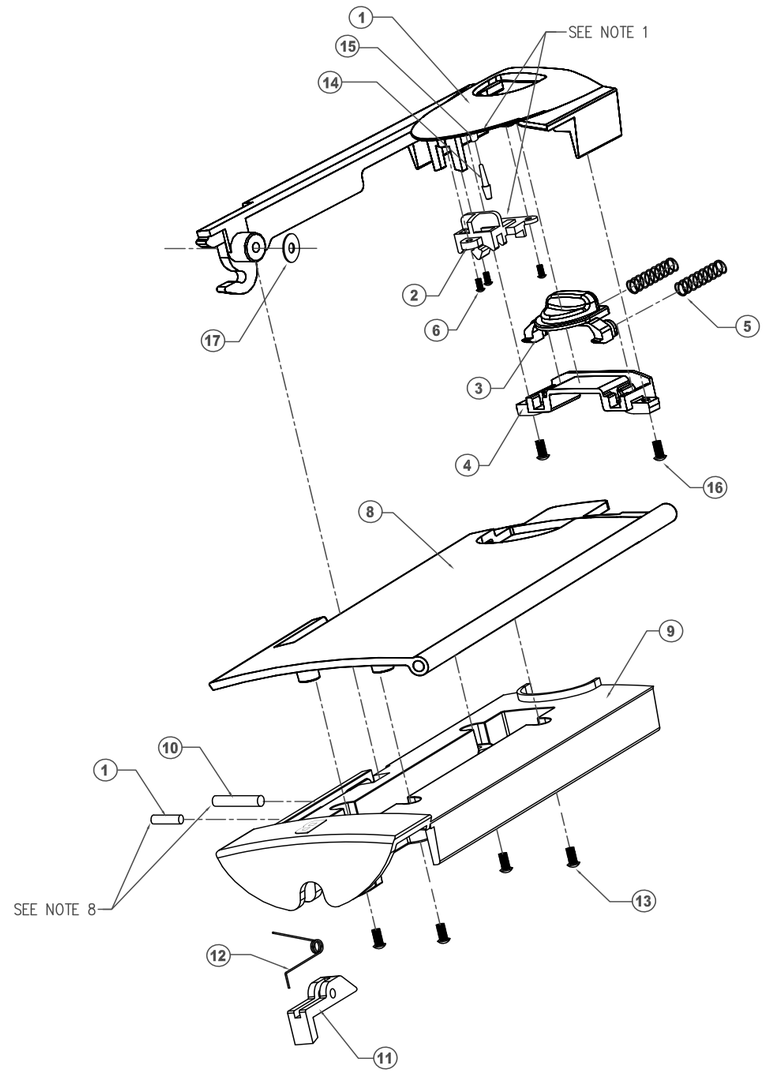
Rev: A

Cad. Scale: NA

Sheet 1 of 1

LF20 Rev. A

Figure 5-79. AS113OP Sub-Assembly, 3851, Door, Latching, Optic**



ASSEMBLY NOTES:

1. USING 3 #2–56 X 3/16 PAN HD. SCREWS (ITEM 6), ATTACH CLAMP CLIP (ITEM 2) TO THE BACK OF CLAMP HANDLE (ITEM 1) AS SHOWN. INSPECT AND REMOVE ANY SHARP EDGES FROM HANDLE PARABOLA USING FINE GRIT SANDPAPER. DO NOT OVER–TIGHTEN SCREWS.

2. APPLY A COUPLE DROPS OF LOCTITE 380 (BLACK MAX (ITEM 15)) INTO HOLE ON UNDERSIDE OF CLAMP HANDLE (ITEM 1). QUICKLY PRESS RUBBER PIN (ITEM 14) INTO HOLE AS SHOWN AND AND HOLD FOR 2 SECONDS. IMMEDIATELY WIPE AWAY ANY EXCESS ADHESIVE AROUND BASE OF RUBBER PIN.

3. PLACE CLAMP LATCH SLIDER (ITEM 3) ONTO CLAMP LATCH COVER (ITEM 4) ALONG WITH 2 COMPRESSION SPRINGS (ITEM 5) (COMPRESS AND PLACE INTO COVER HOLDING SLIDER IN PLACE). PLACE THIS ASSEMBLY IN AREA PROVIDED IN BACKSIDE OF CLAMP (ASSURE BUTTON SIDE OF SLIDER IS PROTRUDING THRU CLAMP) AND SECURE WITH 2 SCREWS (ITEM 16).

4. ALIGN CLAMP HANDLE (ITEM 1) AND WAVE WASHER (ITEM 17) INTO DOOR PRESSURE PLATE (ITEM 9) BY PLACING ROUNDED BEARING END OF CLAMP HANDLE AND WASHER INTO THE U–SHAPED CUTOUT IN THE FACE OF THE CLEAR PRESSURE PLATE. PRESS FIT THE BRASS CLAMP PIN (ITEM 7) THRU FROM THE OUTSIDE OF THE PLASTIC PRESSURE PLATE, THRU THE HOLE OF THE CLAMP HANDLE, THRU WASHER AND THEN THRU THE OTHER SIDE OF THE PLASTIC UNTIL PIN STOPS AGAINST INSIDE WALL OF PRESSURE PLATE.

5. NEXT PLACE THE LATCH PAW TORSION SPRING (ITEM 12) INTO THE DOOR LATCH PAW (ITEM 11) AS SHOWN ALIGNING THE HOLES OF THE LATCH PAW WITH THAT OF THE SPRING. SLIDE LATCH PAW AND SPRING (COMPRESSING SPRING WITH FINGER) FROM BACKSIDE OF PRESSURE PLATE (ITEM 9) UNTIL HOLES LINE UP WITH THE SIDE WALL. PRESS FIT BRASS PIN (ITEM 10) THRU OUTSIDE WALL GUIDING IT THRU THE LATCH PAW AND TORSION SPRING UNTIL SEATING IT FLUSH AGAINST THE PRESSURE PLATE INSIDE WALL.

6. ONCE THE CLAMP HANDLE AND PAW ARE INSTALLED IN THE PRESSURE PLATE, ROTATE CLAMP OUTWARDS AND UP TO APPROXIMATELY A 45° ANGLE. THE CLAMP HANDLE SHOULD LATCH AGAINST THE PAW AND BE HELD IN PLACE. ALIGN DOOR FRONT (ITEM 8) OVER PRESSURE PLATE AS SHOWN ALIGNING THE 4 BOSSES WITH THIER APPROPRIATE CHANNELS IN THE PRESSURE PLATE. USING 4 #4–40 X 1/4LG. SCREWS (ITEM 13) ATTACH THE DOOR AND PLATE TOGETHER.

7. ONCE DOOR IS IN PLACE, PRESS FOOT OF LATCH PAW FROM BOTTOM SIDE ALLOWING THE CLAMP HANDLE TO ROTATE BACK TO ITS CLOSED AND LOCKED POSITION. INSURE THAT ALL ASSEMBLIES HAVE CLEARANCE AS THE HANDLE ROTATES INTO PLACE.

8. ONCE ASSEMBLY IS FINISHED, APPLY A SMALL AMOUNT OF 2 PART EPOXY TO THE ENDS OF BRASS PINS (ITEM 7 AND 10) TO PREVENT FROM PUSHING OUT DURING USE.

ITEM	PART NO.	QTY.	DESCRIPTION
17	NW06	1	WSHR, WAVE, 18–8SS, .208 ID X .385 OD
16	NS13	2	SCR, #4–40 X 5/16LG. PHMS, SS (316)
15	M044	0.01	LOCKTITE 380, INSTANT ADHESIVE, BLACK
14	IVP1099OP	1	DOOR PIN, OPTIC, 3850/3851
13	NS12	4	SCREW, #4–40 X 1/4LG. PHMS, XR–SS316
12	HM16	1	SPRING, TORSION, DOOR LATCH PAW
11	IVP1038	1	PAW, DOOR LATCH
10	HM15	1	PIN, DOOR LATCH PAW
9	IVP1072T	1	PRESSURE PLATE, DOOR, 3851 TAPER
8	IVP1073APA	1	DOOR, FRONT, LATCH, PAINTED, 3861 SERIES
7	HM14	1	PIN, CLAMP HANDLE
6	NS01	3	SCREW, #2–56 X 3/16LG. PHMS, XR–SS316
5	HM17	2	SPRING, SPRING ARM COMPRESSION
4	IVP1095	1	CLAMP LATCH, COVER, 3850–3851
3	IVP1094	1	CLAMP LATCH, SLIDER, 3850–3851
2	IVP1068	1	CLAMP CLIP, DOOR
1	IVP1074A	1	CLAMP HANDLE, DOOR, 3851, LATCHED

Rev.	Description	Date
B	ECN 000488	18JUN13
A	ECN 000373	14FEB11

Revision History

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Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: SUB–ASSEM, FRNT DR, 3851/61, LTCH, OPTIC
Size: C
Part/Dwg. No: AS113AOP
Rev: B
Cad. Scale: NA
Sheet 1 of 1

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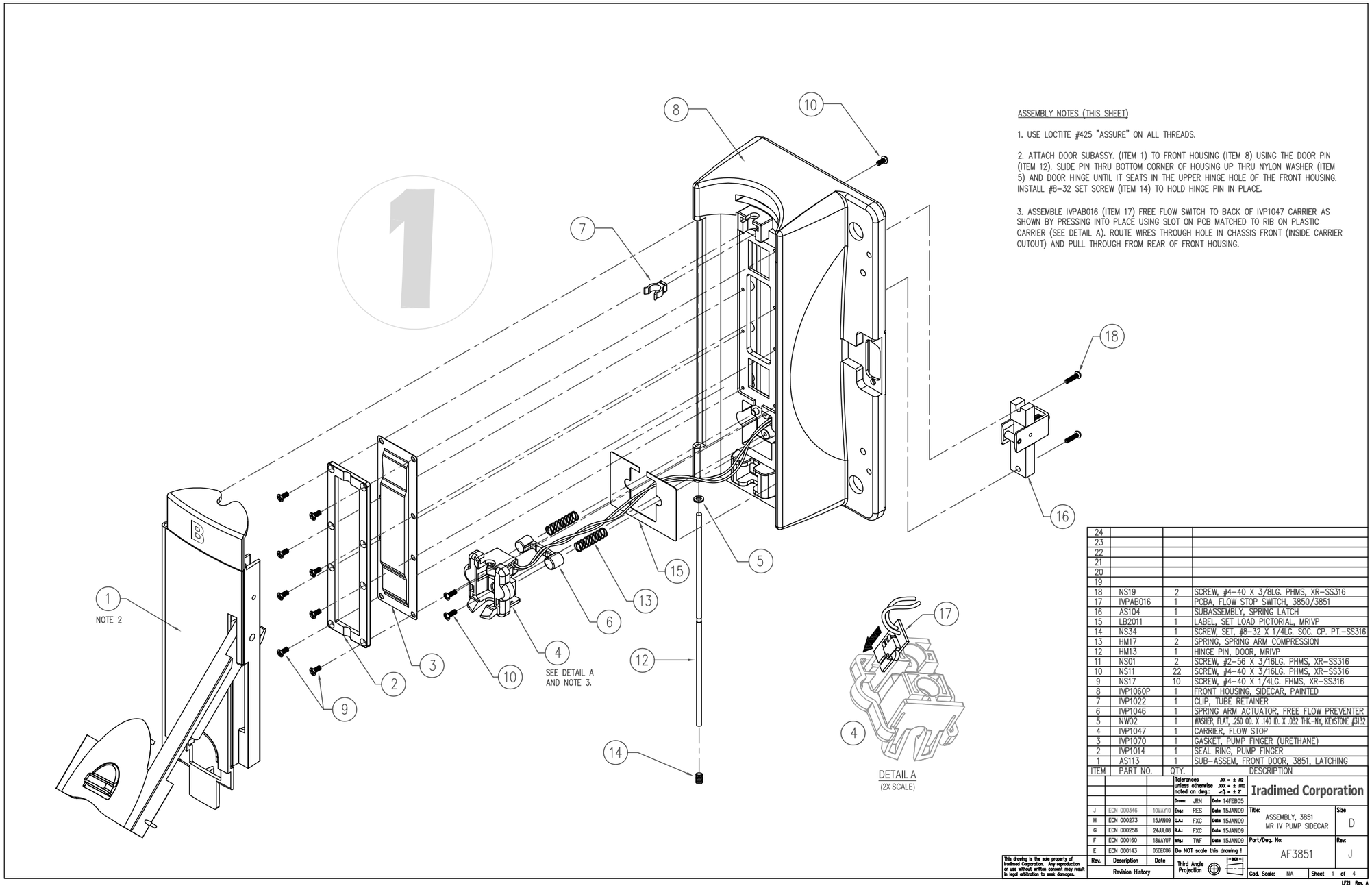
LF20 Rev. A

Figure 5-80. AS113AOP Sub-Assembly, 3851, Door, Latching, Optic*



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. ATTACH DOOR SUBASSY. (ITEM 1) TO FRONT HOUSING (ITEM 8) USING THE DOOR PIN (ITEM 12). SLIDE PIN THRU BOTTOM CORNER OF HOUSING UP THRU NYLON WASHER (ITEM 5) AND DOOR HINGE UNTIL IT SEATS IN THE UPPER HINGE HOLE OF THE FRONT HOUSING. INSTALL #8-32 SET SCREW (ITEM 14) TO HOLD HINGE PIN IN PLACE.

3. ASSEMBLE IVPAB016 (ITEM 17) FREE FLOW SWITCH TO BACK OF IVP1047 CARRIER AS SHOWN BY PRESSING INTO PLACE USING SLOT ON PCB MATCHED TO RIB ON PLASTIC CARRIER (SEE DETAIL A). ROUTE WIRES THROUGH HOLE IN CHASSIS FRONT (INSIDE CARRIER CUTOUT) AND PULL THROUGH FROM REAR OF FRONT HOUSING.

ITEM	PART NO.	QTY.	DESCRIPTION
24			
23			
22			
21			
20			
19			
18	NS19	2	SCREW, #4-40 X 3/8LG. PHMS, XR-SS316
17	IVPAB016	1	PCBA, FLOW STOP SWITCH, 3850/3851
16	AS104	1	SUBASSEMBLY, SPRING LATCH
15	LB2011	1	LABEL, SET LOAD PICTORIAL, MRIVP
14	NS34	1	SCREW, SET, #8-32 X 1/4LG. SOC. CP. PT.-SS316
13	HM17	2	SPRING, SPRING ARM COMPRESSION
12	HM13	1	HINGE PIN, DOOR, MRIVP
11	NS01	2	SCREW, #2-56 X 3/16LG. PHMS, XR-SS316
10	NS11	22	SCREW, #4-40 X 3/16LG. PHMS, XR-SS316
9	NS17	10	SCREW, #4-40 X 1/4LG. FHMS, XR-SS316
8	IVP1060P	1	FRONT HOUSING, SIDECAR, PAINTED
7	IVP1022	1	CLIP, TUBE RETAINER
6	IVP1046	1	SPRING ARM ACTUATOR, FREE FLOW PREVENTER
5	NW02	1	WASHER, FLAT, .250 OD. X .140 ID. X .032 THK.-NY, KEYSTONE #3132
4	IVP1047	1	CARRIER, FLOW STOP
3	IVP1070	1	GASKET, PUMP FINGER (URETHANE)
2	IVP1014	1	SEAL RING, PUMP FINGER
1	AS113	1	SUB-ASSEM, FRONT DOOR, 3851, LATCHING

Rev.	Description	Date
J	ECN 000346	10MAY10
H	ECN 000273	15JAN09
G	ECN 000258	24JUL08
F	ECN 000160	18MAY07
E	ECN 000143	05DEC06

Revision History

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Third Angle Projection

Iradimed Corporation

Title: ASSEMBLY, 3851 MR IV PUMP SIDECAR

Size: D

Part/Dwg. No: AF3851

Rev: J

Cad. Scale: NA

Sheet 1 of 4

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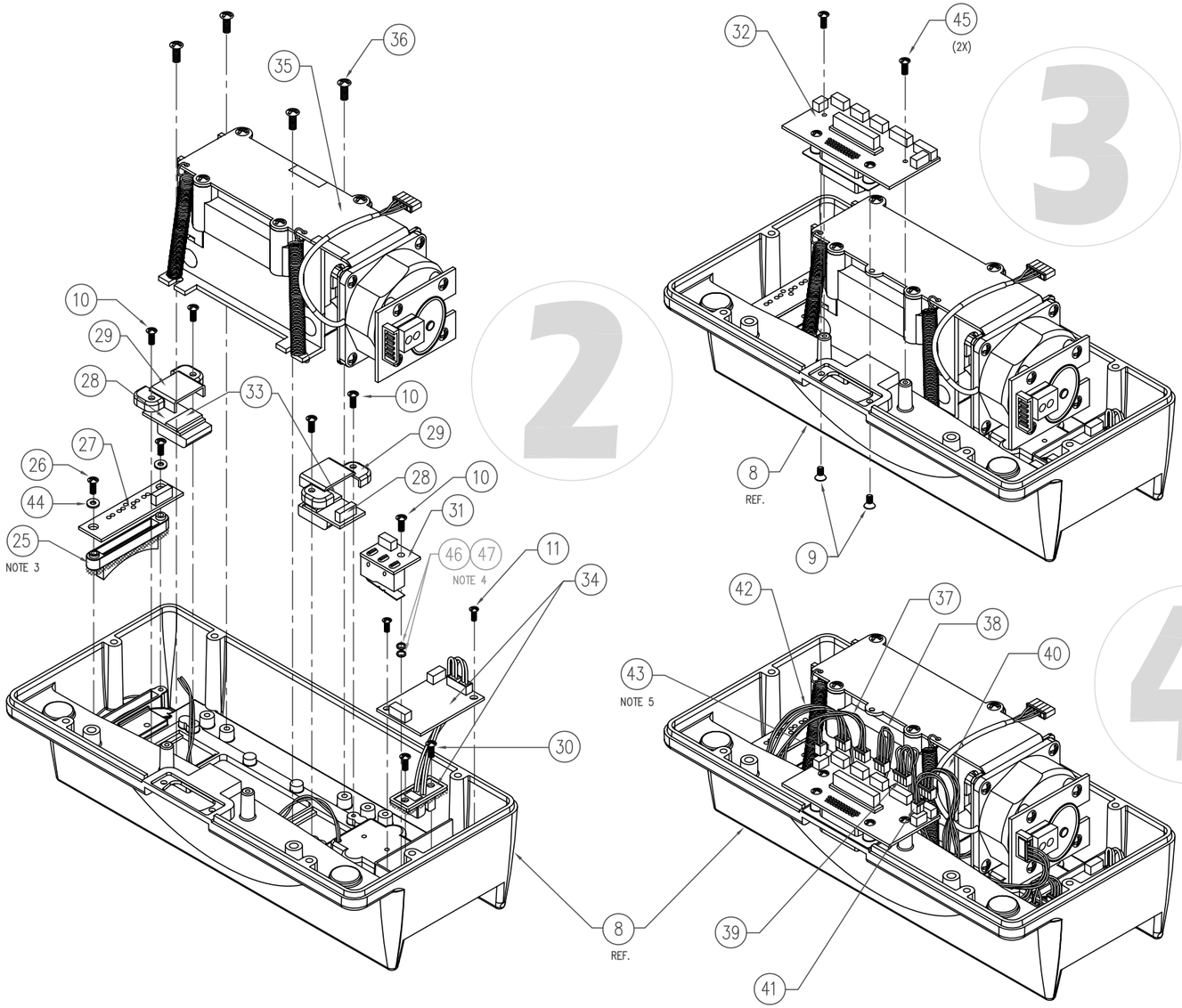
LF21 Rev. A

Figure 5-81. AF3851 SideCar Assembly Sheet 1 of 4



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. PLACE AN .03–.06 BEAD OF RTV 732 SILICONE ADHESIVE OR EQUIVALENT COMPLETELY AROUND EDGE OF BUBBLE DETECTOR FLANGE (P/O ITEM 34) BEFORE PLACING DETECTOR INTO FRONT HOUSING (ITEM 8). PLACE DETECTOR INTO FRONT HOUSING BEFORE RTV DRIES.

3. PLACE AN .03–.06 BEAD OF RTV 732 SILICONE ADHESIVE OR EQUIVALENT COMPLETELY AROUND EDGE OF LIGHT PIPE FLANGE (ITEM 25) BEFORE PLACING LIGHT PIPE INTO FRONT HOUSING (ITEM 8). PLACE LIGHT PIPE INTO FRONT HOUSING BEFORE RTV DRIES.

4. WHEN INSTALLING IVPAB008 DOOR SWITCH ASSEMBLY, MEASURE NOMINAL AND OVER–TRAVEL SWITCH POSITIONS USING TOOL TF012 OR TF013. IF ASSEMBLY NEEDS TO BE RAISED, USE SHIMS NW08 AND/OR NW09 TO BUILD UP SWITCH ASSEMBLY TO CORRECT HEIGHT REQUIREMENT.

5. PLACE WHITE AND BLACK WIRES FROM IVPAB016 ASSEMBLY (SEE SHEET 1) INTO 2 PIN HOUSING (ITEM 43) AS SHOWN AND PLUG INTO CONNECTOR HOUSING AT LOCATION J7 ON IVPAB010 (ITEM 32).

ITEM	PART NO.	QTY.	DESCRIPTION
50			
49			
48			
47	NW09	1	WSHR,SHIM,0.024THK.,0.125 X 0.187,300SS
46	NW08	1	WSHR,SHIM,0.012THK.,0.125 X 0.187,300SS
45	NS13	2	SCREW, #4–40 X 5/16LG. PHMS, XR–SS316
44	NW02	2	WSHR, FLT,.250X.140X.032–NY,KEYSTN 3122
43	PA45	1	CONN. 2P HSG, SR, JST EHR–2
42	AC27	1	CABLE, ALARM, 3851, 3 PIN
41	AC26	1	CABLE, DOOR SWITCH, 3851, 2 PIN
40	AC25	1	CABLE, BUBBLE DET., 3851, 4 PIN
39	AC24	1	CABLE, ENCODER, 3851, 4 PIN
38	AC23	1	CABLE, PRESS. SENS. 2 (BTM), 3851, 3 PIN
37	AC22	1	CABLE, PRESS. SENS. 1 (TOP), 3851, 3 PIN
36	NS21	4	SCREW, #6–32 X 1/4 LG. PHMS, XR–SS316
35	AS100	1	ASSY., BLOCK PUMP
34	HE09	1	ZEVEX US BUBBLE DET.,Z12031 SENSOR, Z1116
33	HM22	0.5	TAPE, FOAM, SINGLE–SIDED, .06 THK. X 1.00 WID., 3M #4016–1
32	IVPAB010	1	PCBA, SIDECAR I/O (SIDE)
31	IVPAB008	1	PCBA, DOOR SWITCH
30	NS18	2	SCREW, #4–40 X 1/4LG. PHMS–NY
29	IVP1019	2	CAP, SENSOR
28	IVPAB007	2	PCBA, PRESSURE SENSOR
27	IVPAB004	1	PCBA, ALARM LED
26	NS14	2	SCREW, #4–40 X 1/2LG. PHMS, XR–SS316
25	IVP1023	1	LIGHT PIPE, LED ALARM

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

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Iradimed Corporation

Title: ASSEMBLY, 3851 MR IV PUMP SIDECAR
Size: D
Part/Dwg. No: AF3851
Rev: J
Cod. Scale: NA
Sheet 2 of 4

SEE SHEET 1

Revision History: Rev. | Description | Date

Third Angle Projection

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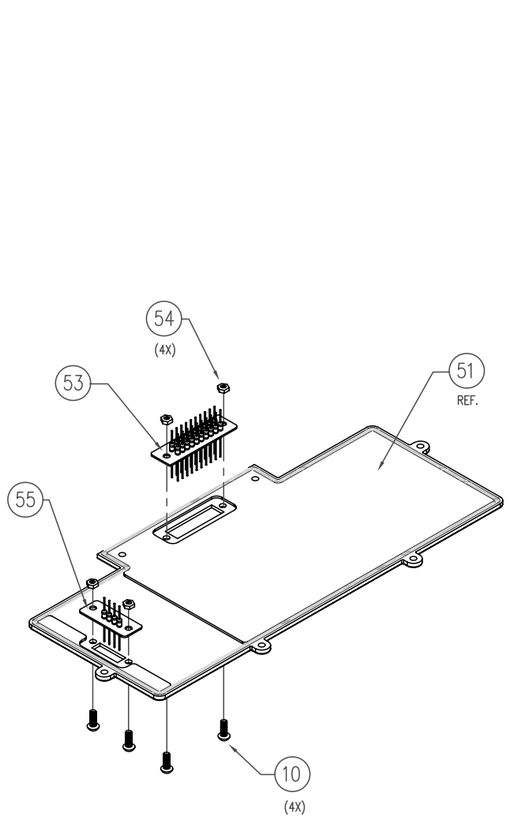
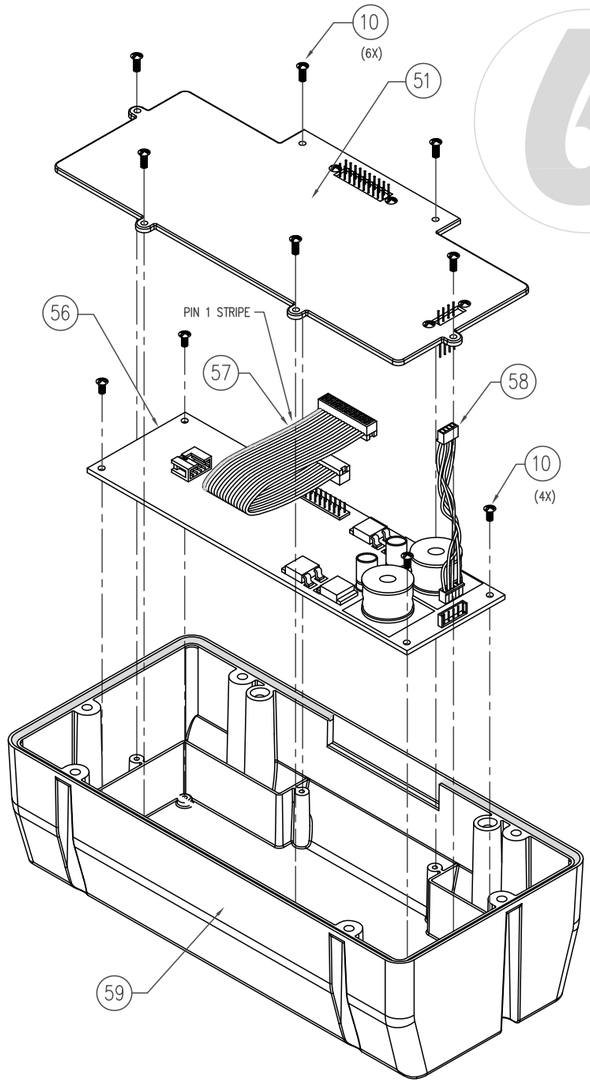
LF21 Rev. A

Figure 5-82. AF3851 SideCar Assembly Sheet 2 of 4





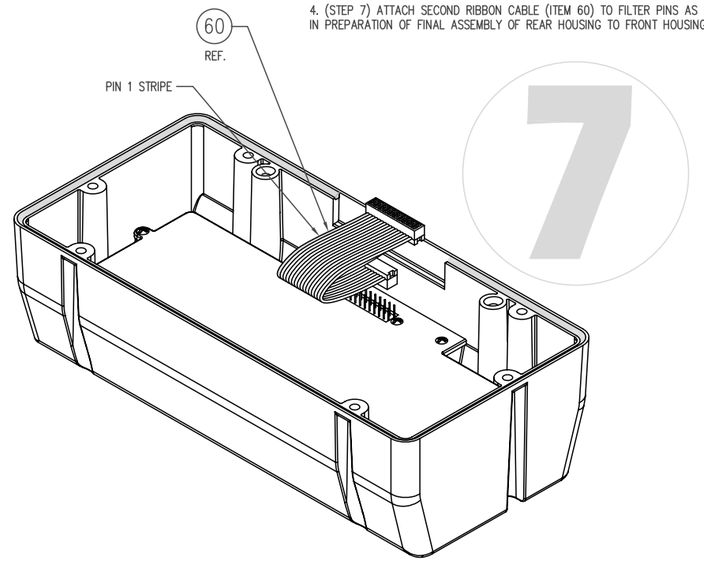
ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. (STEP 5) PREPARE REAR COVER (ITEM 51) ASSEMBLY FIRST BY INSTALLING FILTER PLATES (ITEM 53 AND 55) THRU FROM BACK SIDE OF COVER USING SPECIFIED HARDWARE AS SHOWN. ATTACH GASKET MATERIAL (ITEM 52) ALONG OUTER EDGE FOLLOWING GROOVE ON BACKSIDE OF COVER. INSURE GASKET MATERIAL COVERS ENTIRE AREA AND JOINS TOGETHER AT ONE POINT.

3. (STEP 6) ATTACH CABLES (ITEM 57 AND 58) TO PCBA (ITEM 56) WHERE SPECIFIED. INSTALL PCBA (ITEM 56) INTO PAINTED REAR HOUSING (ITEM 60) USING SPECIFIED HARDWARE. ATTACH CABLES TO PINS ON FILTER PLATES FROM BACKSIDE OF REAR COVER ASSEMBLY FOLDING CABLES IN TOWARDS PCB ASSEMBLY. LOCATE REAR COVER OVER MOUNTING HOLES IN REAR HOUSING AND ATTACH USING SPECIFIED HARDWARE.

4. (STEP 7) ATTACH SECOND RIBBON CABLE (ITEM 60) TO FILTER PINS AS SHOWN IN PREPARATION OF FINAL ASSEMBLY OF REAR HOUSING TO FRONT HOUSING.



ITEM	PART NO.	QTY.	DESCRIPTION
60	AC34	1	CABLE, RIBBON, 3851, 20 PIN
59	IVP1061P	1	REAR HOUSING, SIDECAR, PAINTED
58	AC05	1	CABLE, MOTOR DRIVE, 3850, 4 PIN
57	AC12	1	CABLE, RIBBON, 3850, 20 PIN
56	IVPAB011	1	PCBA, SIDECAR PUMP
55	PF09	1	FILTER PLATE, 4P, SR, 100pF, 52-970-213
54	N002	4	NUT, HEX, #4-40 REG. SERIES-SS316
53	PF10	1	FILTER PLATE, 20P, DR, 1500pF, 52-972-523
52			
51	IVP1059	1	REAR COVER, PCB, SIDECAR

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Title: ASSEMBLY, 3851 MR IV PUMP SIDECAR
Size: D
Part/Dwg. No: AF3851
Rev: J
Cad. Scale: NA
Sheet 3 of 4

SEE SHEET 1
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Rev. | Description | Date
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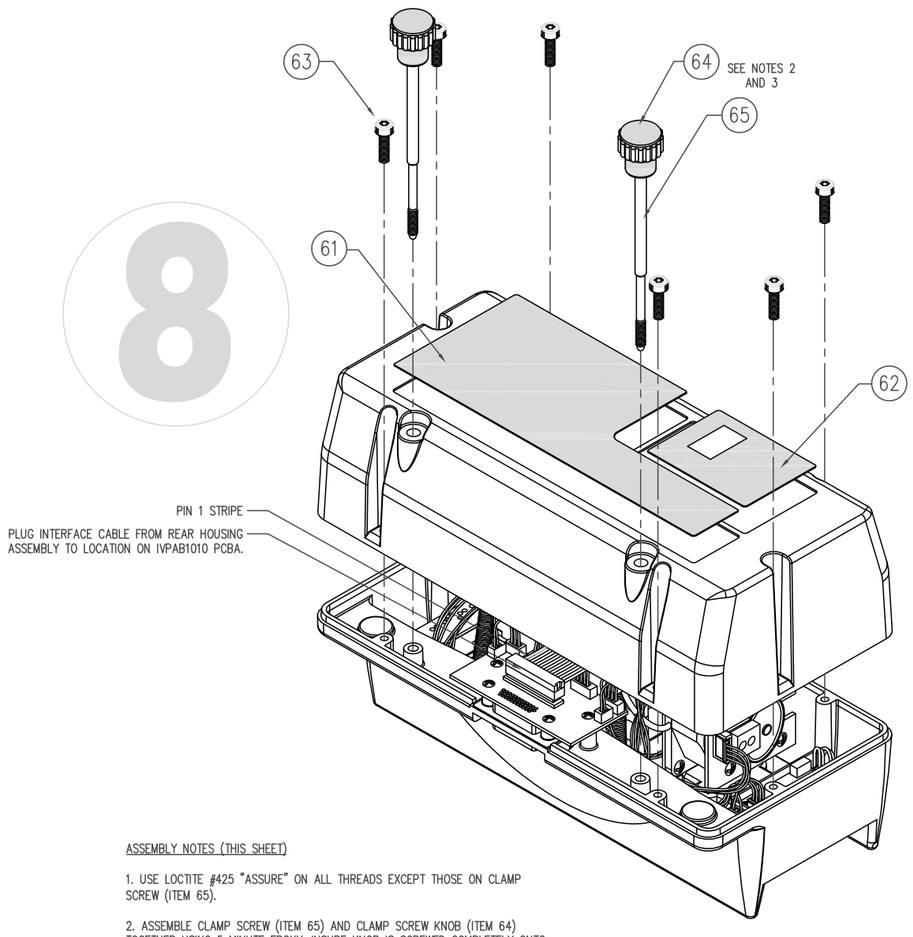
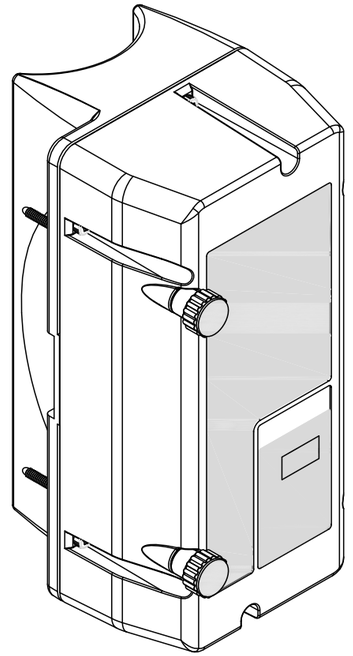
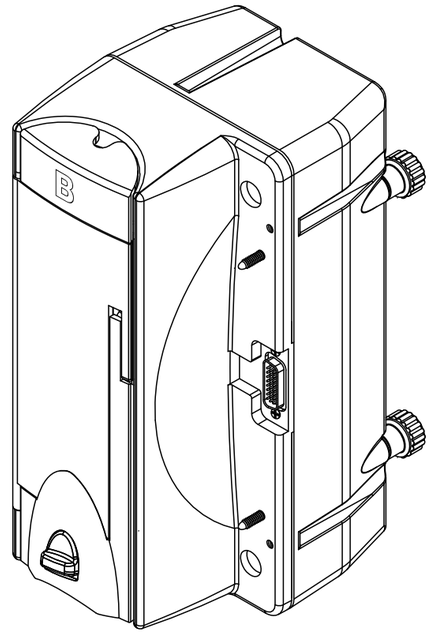
Figure 5-83. AF3851 SideCar Assembly Sheet 3 of 4







ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS EXCEPT THOSE ON CLAMP SCREW (ITEM 65).

2. ASSEMBLE CLAMP SCREW (ITEM 65) AND CLAMP SCREW KNOB (ITEM 64) TOGETHER USING 5 MINUTE EPOXY. INSURE KNOB IS SCREWED COMPLETELY ONTO CLAMP SCREW AND ALLOW TO DRY BEFORE INSTALLING INTO ASSEMBLY.

3. ASSEMBLE CLAMP SCREW ASSEMBLY INTO REAR HOUSING BY THREADING THRU FROM BACKSIDE AS SHOWN AND ALLOWING ASSEMBLY TO THEN FALL THRU TO FRONT HOUSING. INSURE CLAMP SCREW CAN "FREE SPIN" ONCE ASSEMBLED.

ITEM	PART NO.	QTY.	DESCRIPTION
65	IVP1066	2	CLAMP SCREW, SIDECAR
64	HM37	2	KNOB, KNURLED, ELESA B.259/20 S-M6 CLEAN
63	NS32	6	SCREW,#8-32 X 1/2LG. PHMS, XR-SS316
62	LB2004	1	LABEL, SERIAL/MODEL NO., MRIVP
61	LB2017	1	LABEL, ABREV. OP. INSTRUCTIONS, SIDECAR

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Mfg.: TMF Date: 15JAN09

Title: ASSEMBLY, 3851 MR IV PUMP SIDECAR
Size: D
Part/Dwg. No: AF3851
Rev: J
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SEE SHEET 1
Third Angle Projection
Cad. Scale: NA
Sheet 4 of 4

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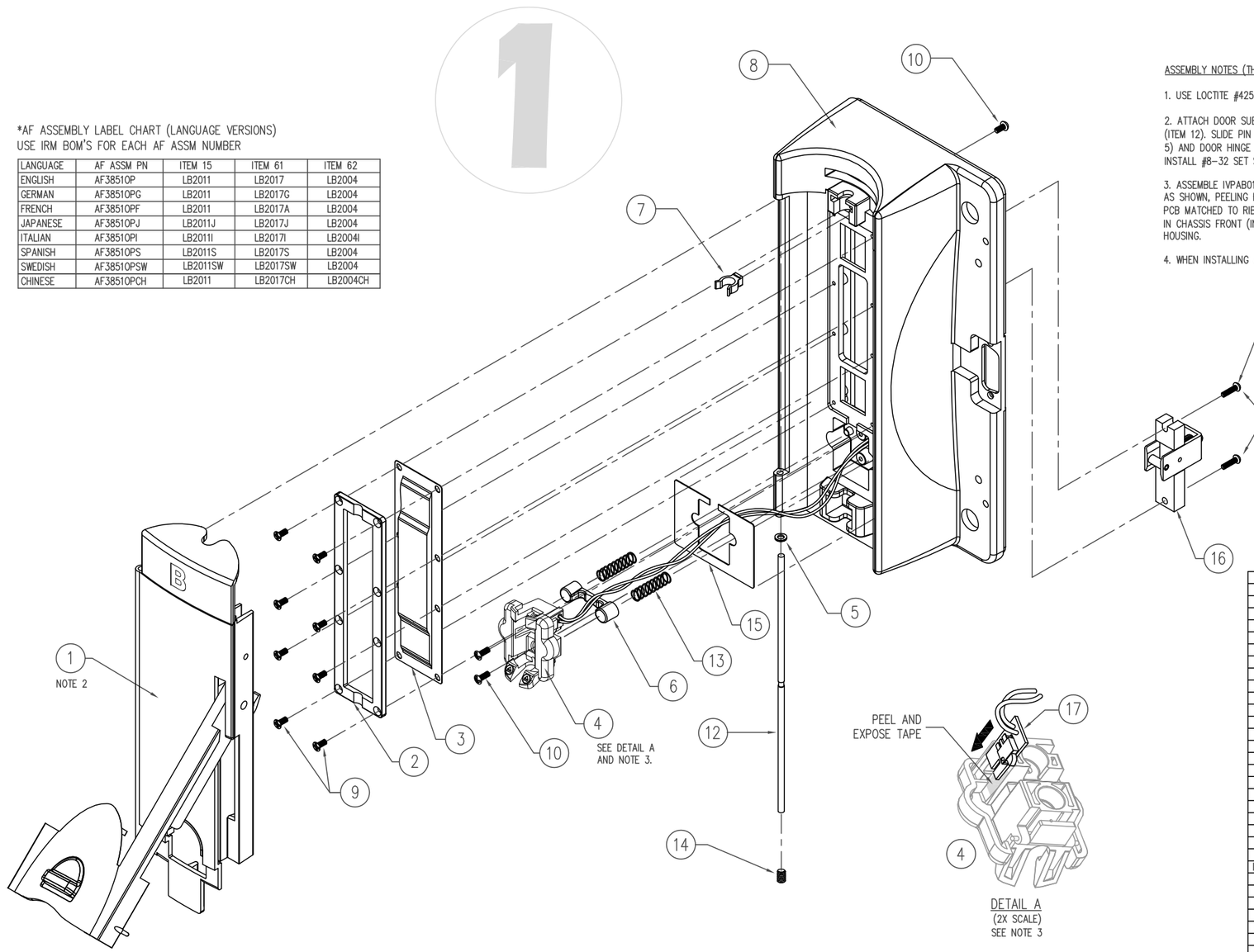
Rev.	Description	Date
Revision History		

LF21 Rev. A

Figure 5-84. AF3851 SideCar Assembly Sheet 4 of 4

*AF ASSEMBLY LABEL CHART (LANGUAGE VERSIONS)
USE IRM BOM'S FOR EACH AF ASSM NUMBER

LANGUAGE	AF ASSM PN	ITEM 15	ITEM 61	ITEM 62
ENGLISH	AF3851OP	LB2011	LB2017	LB2004
GERMAN	AF3851OPG	LB2011	LB2017G	LB2004
FRENCH	AF3851OPF	LB2011	LB2017A	LB2004
JAPANESE	AF3851OPJ	LB2011J	LB2017J	LB2004
ITALIAN	AF3851OPI	LB2011I	LB2017I	LB2004I
SPANISH	AF3851OPS	LB2011S	LB2017S	LB2004
SWEDISH	AF3851OPSW	LB2011SW	LB2017SW	LB2004
CHINESE	AF3851OPCH	LB2011	LB2017CH	LB2004CH



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. ATTACH DOOR SUBASSY. (ITEM 1) TO FRONT HOUSING (ITEM 8) USING THE DOOR PIN (ITEM 12). SLIDE PIN THRU BOTTOM CORNER OF HOUSING UP THRU NYLON WASHER (ITEM 5) AND DOOR HINGE UNTIL IT SEATS IN THE UPPER HINGE HOLE OF THE FRONT HOUSING. INSTALL #8–32 SET SCREW (ITEM 14) TO HOLD HINGE PIN IN PLACE.

3. ASSEMBLE IVPAB016 (ITEM 17) FREE FLOW SWITCH TO BACK OF AS120 (ITEM 4) CARRIER AS SHOWN, PEELING BACK DOUBLE SIDED TAPE AND PRESSING INTO PLACE USING SLOT ON PCB MATCHED TO RIB ON PLASTIC CARRIER (SEE DETAIL A). ROUTE WIRES THROUGH HOLE IN CHASSIS FRONT (INSIDE CARRIER CUTOUT) AND PULL THROUGH FROM REAR OF FRONT HOUSING.

4. WHEN INSTALLING AS104 LATCH ASSEMBLY (ITEM 19) USE "RED LOCTITE" ON 2 SCREWS,

ITEM	PART NO.	QTY.	DESCRIPTION
24			
23			
22			
21			
20			
19			
18	NS19	2	SCREW, #4–40 X 3/8LG. PHMS, XR–SS316
17	IVPAB016	1	PCBA, FLOW STOP SWITCH, 3850/3851
16	AS104	1	SUBASSEMBLY, SPRING LATCH
15	LB2011	1	SEE LABEL CHART FOR LANGUAGES
14	NS34	1	SCREW, SET, #8–32 X 1/4LG. SOC. CP. PT.–SS316
13	HM17	2	SPRING, SPRING ARM COMPRESSION
12	HM13	1	HINGE PIN, DOOR, MRIVP
11	NS01	2	SCREW, #2–56 X 3/16LG. PHMS, XR–SS316
10	NS11	22	SCREW, #4–40 X 3/16LG. PHMS, XR–SS316
9	NS17	10	SCREW, #4–40 X 1/4LG. FHMS, XR–SS316
8	IVP1060P	1	FRONT HOUSING, SIDECAR, PAINTED
7	IVP1022	1	CLIP, TUBE RETAINER
6	IVP1046	1	SPRING ARM ACTUATOR, FREE FLOW PREVENTER
5	NW02	1	WASHER, FLAT, .250 OD. X .140 ID. X .032 THK.–NY, KEYSTONE #3132
4	AS120	1	SUB–ASSEM, FLOW CARRIER, SPRING LOAD
3	IVP1070	1	GASKET, PUMP FINGER (URETHANE)
2	IVP1014	1	SEAL RING, PUMP FINGER
1	AS1130P	1	SUB–ASSEM, FRNT DR, 3851, LATCHING, OPTIC

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Rev.	Description	Date
E	ECN 000478	25APR13
D	ECN 000457	20NOV12
C	ECN 000423	30MAY12
B	ECN 000380	12MAY11
A	ECN 000368	28FEB11

Revision History

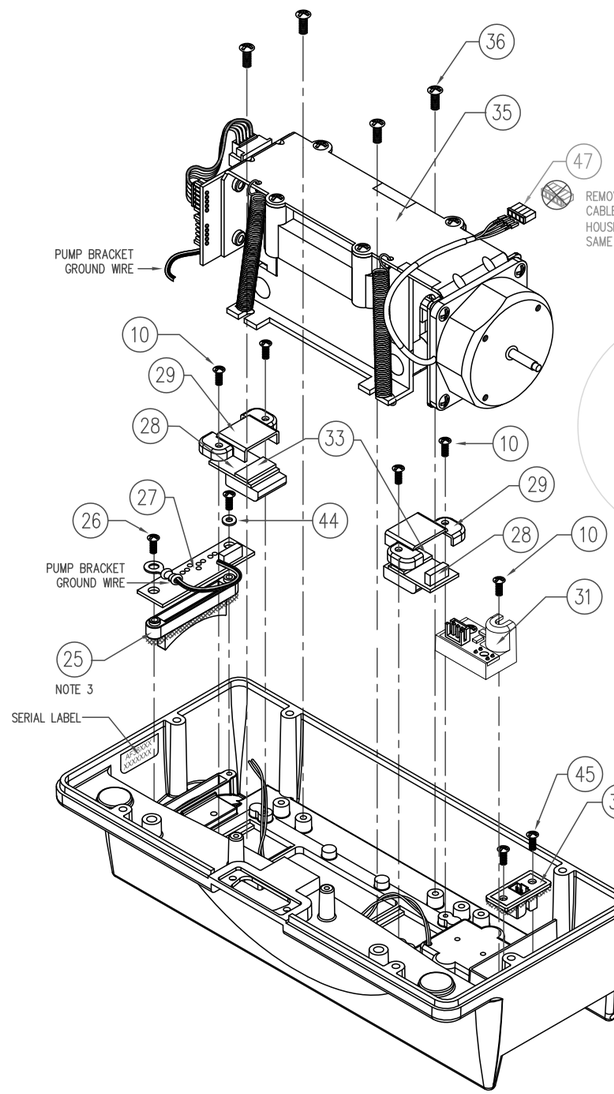
Tolerances unless otherwise noted on dwg.: .XX = ± .02 .XXX = ± .010 ∠ = ± 2°
Drawn: JRN Date: 28FEB11
Eng.: RES Date: 25APR13
Q.A.: FXC Date: 25APR13
R.A.: FXC Date: 25APR13
Mfg.: TWF Date: 25APR13
Do NOT scale this drawing !
Third Angle Projection

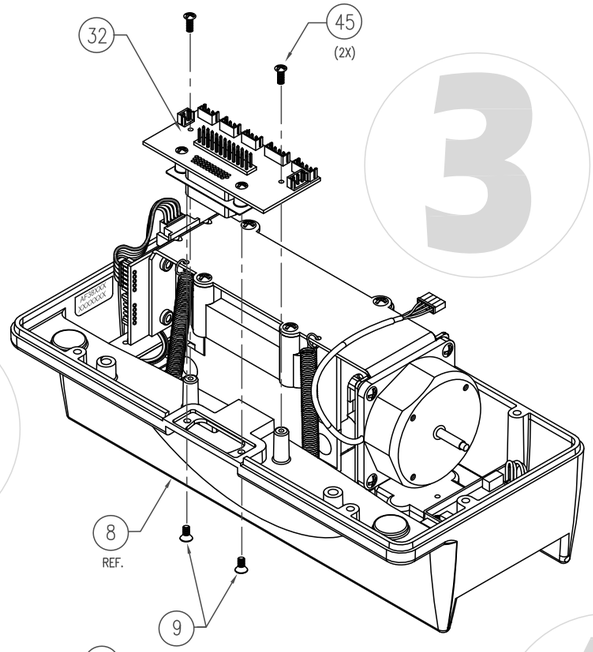
Iradimed Corporation

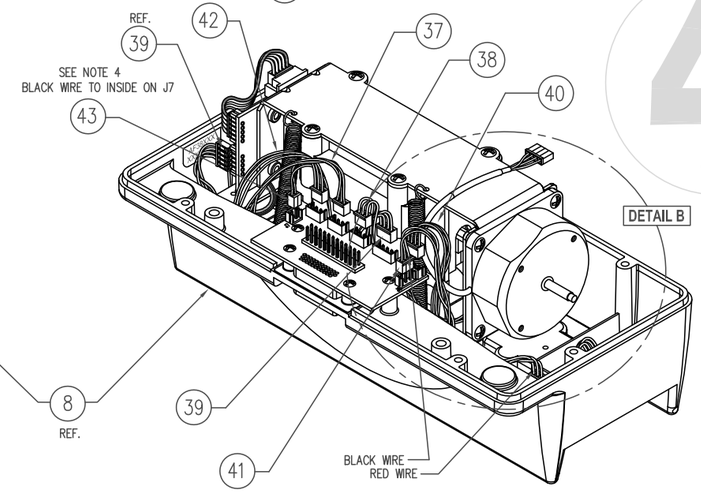
Title: ASSEMBLY, 3851 SIDECAR, OPTIC
Size: D
Part/Dwg. No: AF3851OP
Rev: E
Cad. Scale: NA
Sheet 1 of 4

LF21 Rev. A

Figure 5-85. AF3851OP SideCar Assembly Sheet 1 of 4**







ASSEMBLY NOTES (THIS SHEET)

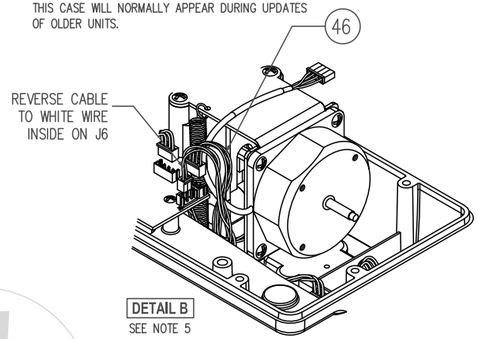
1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. PLACE AN .03–.06 BEAD OF RTV 732 SILICONE ADHESIVE OR EQUIVALENT COMPLETELY AROUND EDGE OF BUBBLE DETECTOR FLANGE (P/O ITEM 34) BEFORE PLACING DETECTOR INTO FRONT HOUSING (ITEM 8). PLACE DETECTOR INTO FRONT HOUSING BEFORE RTV DRIES.

3. PLACE AN .03–.06 BEAD OF RTV 732 SILICONE ADHESIVE OR EQUIVALENT COMPLETELY AROUND EDGE OF LIGHT PIPE FLANGE (ITEM 25) BEFORE PLACING LIGHT PIPE INTO FRONT HOUSING (ITEM 8). PLACE LIGHT PIPE INTO FRONT HOUSING BEFORE RTV DRIES.

4. PLACE WHITE AND BLACK WIRES FROM IVPAB016 ASSEMBLY (SEE SHEET 1) INTO 2 PIN HOUSING (ITEM 43) AS SHOWN AND PLUG INTO CONNECTOR HOUSING AT LOCATION J7 ON IVPAB010 (ITEM 32).

5. IF USING SIDECAR I/O PCBA IVPAB010, USE SPLIT CABLE AC49 (ITEM 46) FOR BOTH THE HE09A BUBBLE DETECTOR AND THE IVPAB031 OPTICAL DOOR SENSOR. THIS CASE WILL NORMALLY APPEAR DURING UPDATES OF OLDER UNITS.



DETAIL B
SEE NOTE 5

ITEM	PART NO.	QTY.	DESCRIPTION
47	PA31	1	CONN., 4P HOUSING, SR. JST EHR-4
46	AC49	1	CABLE, OPTIC / BUBBLE DETECT, 3851/3861
45	NS13	4	SCREW, #4-40 X 5/16LG. PHMS, XR-SS316
44	NW02	1	WSHR, FLT,.250X.140X.032-NY,KEYSTN 3122
43	PA45	1	CONN. 2P HSG, SR, JST EHR-2
42	AC27	1	CABLE, ALARM, 3851, 3 PIN
41	AC26	1	CABLE, DOOR SWITCH, 3851/61, 3 PIN
40	AC44	1	CABLE, BUBBLE DET., 3851/61, 4 PIN
39	AC24A	1	CABLE, CUI ENCODER, 3851/61, 4 PIN
38	AC23	1	CABLE, PRESS. SENS. 2 (BTM), 3851, 3 PIN
37	AC22	1	CABLE, PRESS. SENS. 1 (TOP), 3851, 3 PIN
36	NS21	4	SCREW, #6-32 X 1/4 LG. PHMS, XR-SS316
35	AS100A	1	SUB-ASSM., PUMP BLOCK, CUI ENCODER
34	HE09A	1	DETECTOR, BUBBLE, ZEVEX 44228 SENSOR
33	HM22	0.5	TAPE, FOAM, SINGLE-SIDED, .06 THK. X 1.00 WD., 3M #4016-1
32	IVPAB010OP	1	PCBA, SIDECAR I/O, OPTIC 3851/61
31	IVPAB031	1	PCBA, OPTICAL DOOR SWITCH
30			
29	IVP1019	2	CAP, SENSOR
28	IVPAB007	2	PCBA, PRESSURE SENSOR
27	IVPAB004	1	PCBA, ALARM LED
26	NS14	2	SCREW, #4-40 X 1/2LG. PHMS, XR-SS316
25	IVP1023	1	LIGHT PIPE, LED ALARM

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Rev.	Description	Date
	SEE SHEET 1	

Revision History

Tolerances unless otherwise noted on drwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Third Angle Projection

Iradimed Corporation

Drawn:	JRN	Date: 28FEB11
Eng.:	RES	Date: 25APR13
Q.A.:	FXC	Date: 25APR13
R.A.:	FXC	Date: 25APR13
Mfg.:	TWF	Date: 25APR13

Do NOT scale this drawing !

Title: ASSEMBLY, 3851 SIDECAR, OPTIC

Size: D

Part/Dwg. No: AF3851OP

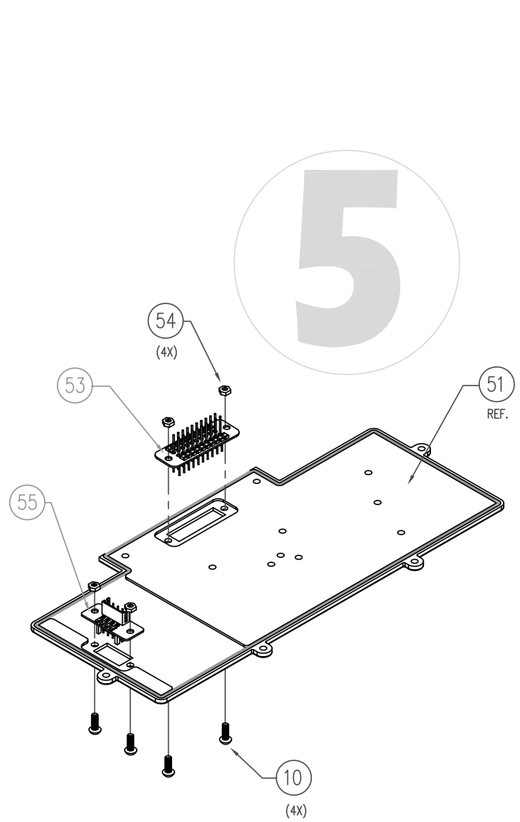
Rev: E

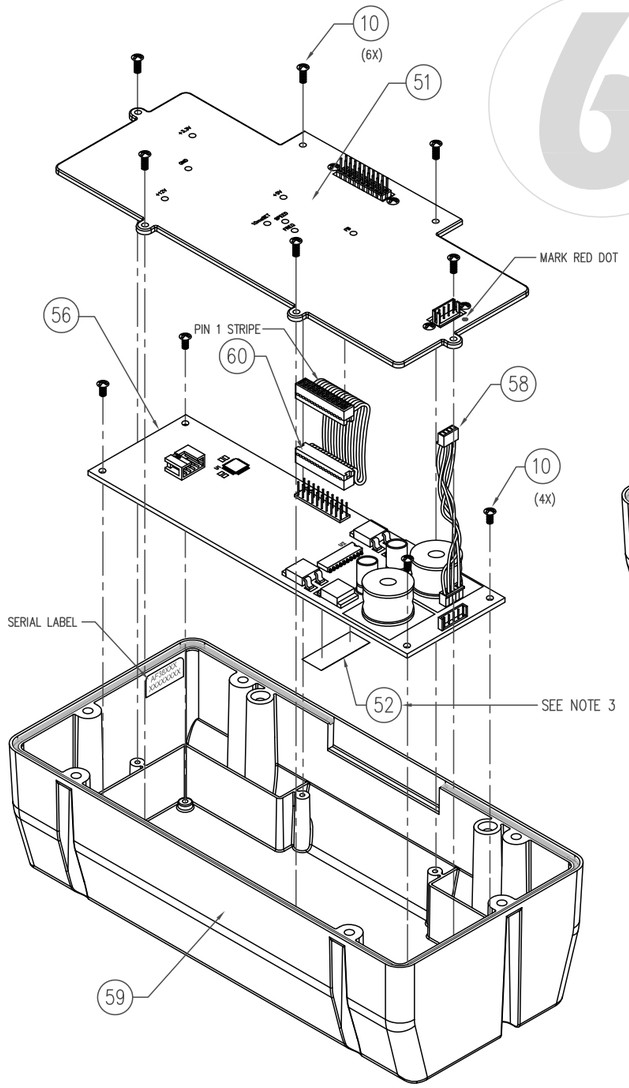
Cad. Scale: NA

Sheet 2 of 4

LF21 Rev. A

Figure 5-86. AF3851OP SideCar Assembly Sheet 2 of 4**





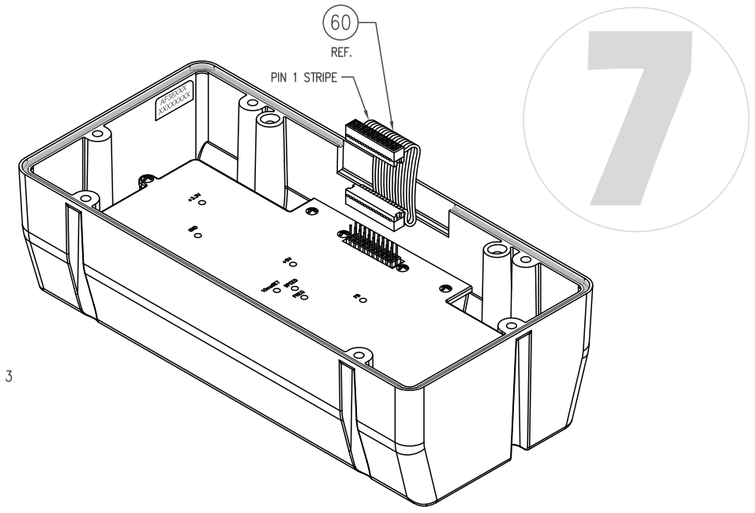
ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. (STEP 5) PREPARE REAR COVER (ITEM 51) ASSEMBLY FIRST BY INSTALLING FILTER PCBA'S (ITEM 53 AND 55) THRU FROM BACK SIDE OF COVER USING SPECIFIED HARDWARE AS SHOWN.

3. (STEP 6) TRIM THRU HOLE LEADS ON BACK OF PCBA (ITEM 56) AT U2 FLUSH TO BOARD. COVER EXPOSED LEADS WITH 1.5" OF KAPTON TAPE (ITEM 52). ATTACH CABLES (ITEM 57 AND 58) TO PCBA (ITEM 56) WHERE SPECIFIED. INSTALL PCBA (ITEM 56) INTO PAINTED REAR HOUSING (ITEM 60) USING SPECIFIED HARDWARE. ATTACH CABLES TO PINS ON FILTER PLATES FROM BACKSIDE OF REAR COVER ASSEMBLY FOLDING CABLES IN TOWARDS PCB ASSEMBLY. LOCATE REAR COVER OVER MOUNTING HOLES IN REAR HOUSING AND ATTACH USING SPECIFIED HARDWARE.

4. (STEP 7) ATTACH SECOND RIBBON CABLE (ITEM 60) TO FILTER PINS AS SHOWN IN PREPARATION OF FINAL ASSEMBLY OF REAR HOUSING TO FRONT HOUSING.



ITEM	PART NO.	QTY.	DESCRIPTION
60	AC34	2	CABLE, RIBBON, 3851/3861, 20 PIN
59	IVP1061P	1	REAR HOUSING, SIDECAR, PAINTED
58	AC05	1	CABLE, MOTOR DRIVE, 3850, 4 PIN
57			
56	IVPAB011	1	PCBA, SIDECAR PUMP
55	IVPAB055	1	PCBA, 4 PIN HI-PWR FILTER, 3851/61
54	N002	4	NUT, HEX, #4-40 REG. SERIES-SS316
53	IVPAB050	1	PCBA, 20 PIN PASSTHRU, 3851/3861
52	M031	1.5	TAPE, #22 KAPTON, 1", ROLL, SHERCON
51	IVP1059	1	REAR COVER, PCB, SIDECAR

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Iradimed Corporation

Drawn:	JRN	Date: 28FEB11
Eng.:	RES	Date: 25APR13
Q.A.:	FXC	Date: 25APR13
R.A.:	FXC	Date: 25APR13
Mfg.:	TWF	Date: 25APR13

Do NOT scale this drawing !

Title: ASSEMBLY, 3851 SIDECAR, OPTIC

Size: D

Part/Dwg. No: AF3851OP

Rev: E

Cad. Scale: NA

Sheet 3 of 4

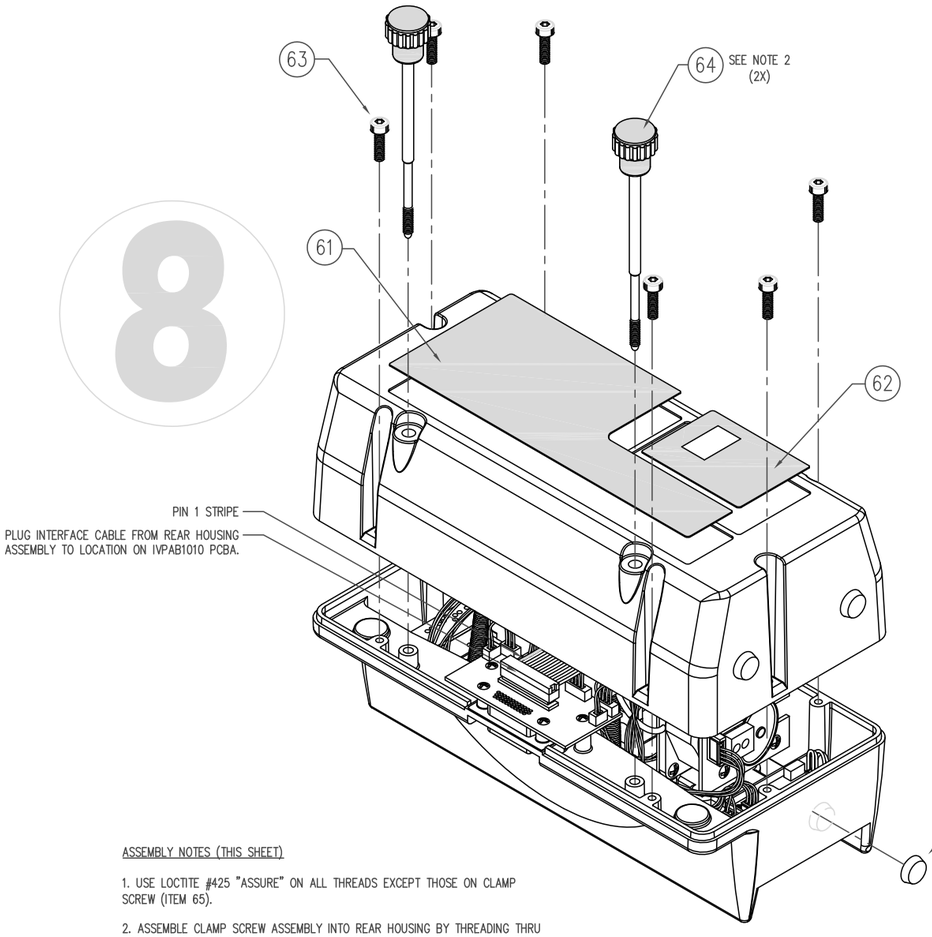
SEE SHEET 1

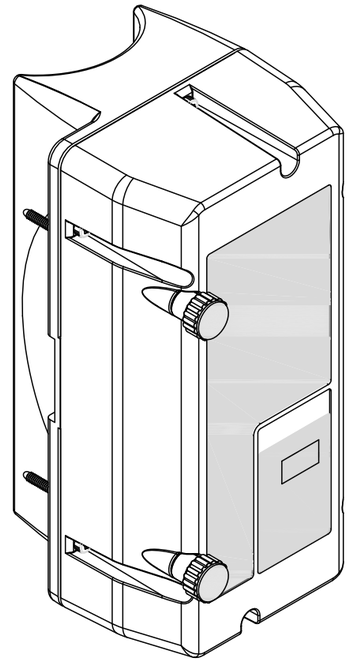
Rev.	Description	Date
Revision History		

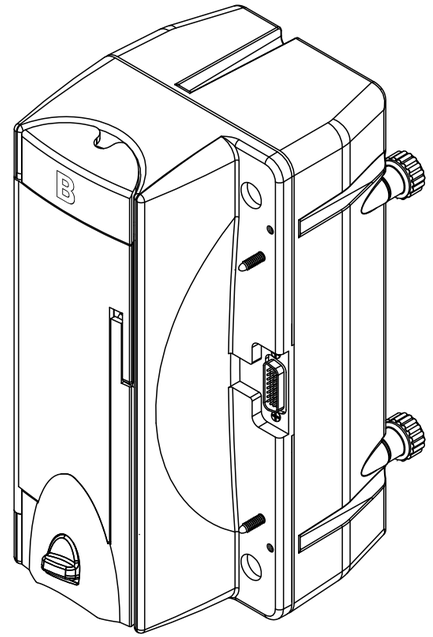
Third Angle Projection

LF21 Rev. A

Figure 5-87. AF3851OP SideCar Assembly Sheet 3 of 4**







ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS EXCEPT THOSE ON CLAMP SCREW (ITEM 65).

2. ASSEMBLE CLAMP SCREW ASSEMBLY INTO REAR HOUSING BY THREADING THRU FROM BACKSIDE AS SHOWN AND ALLOWING ASSEMBLY TO THEN FALL THRU TO FRONT HOUSING. INSURE CLAMP SCREW CAN "FREE SPIN" ONCE ASSEMBLED.

ITEM	PART NO.	QTY.	DESCRIPTION
65	HM03	3	FOOT, CLEAR BUMPON (SJ5312-7-ND)
64	AS134	2	SUB-ASSM, CLAMP SCREW, SIDECAR
63	NS32	6	SCREW,#8-32 X 1/2LG. PHMS, XR-SS316
62	LB2004	1	SEE LABEL CHART SHEET 1
61	LB2017	1	SEE LABEL CHART SHEET 1

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Iradimed Corporation

Drawn: JRN Date: 28FEB11
Eng.: RES Date: 18JUN13
Q.A.: FXC Date: 18JUN13
R.A.: FXC Date: 18JUN13
Mfg.: TWF Date: 18JUN13

Title: ASSEMBLY, 3851 SIDECAR, OPTIC
Size: D
Part/Dwg. No: AF3851OP
Rev.: F
Do NOT scale this drawing !
SEE SHEET 1
Third Angle Projection
Cad. Scale: NA
Sheet 4 of 4

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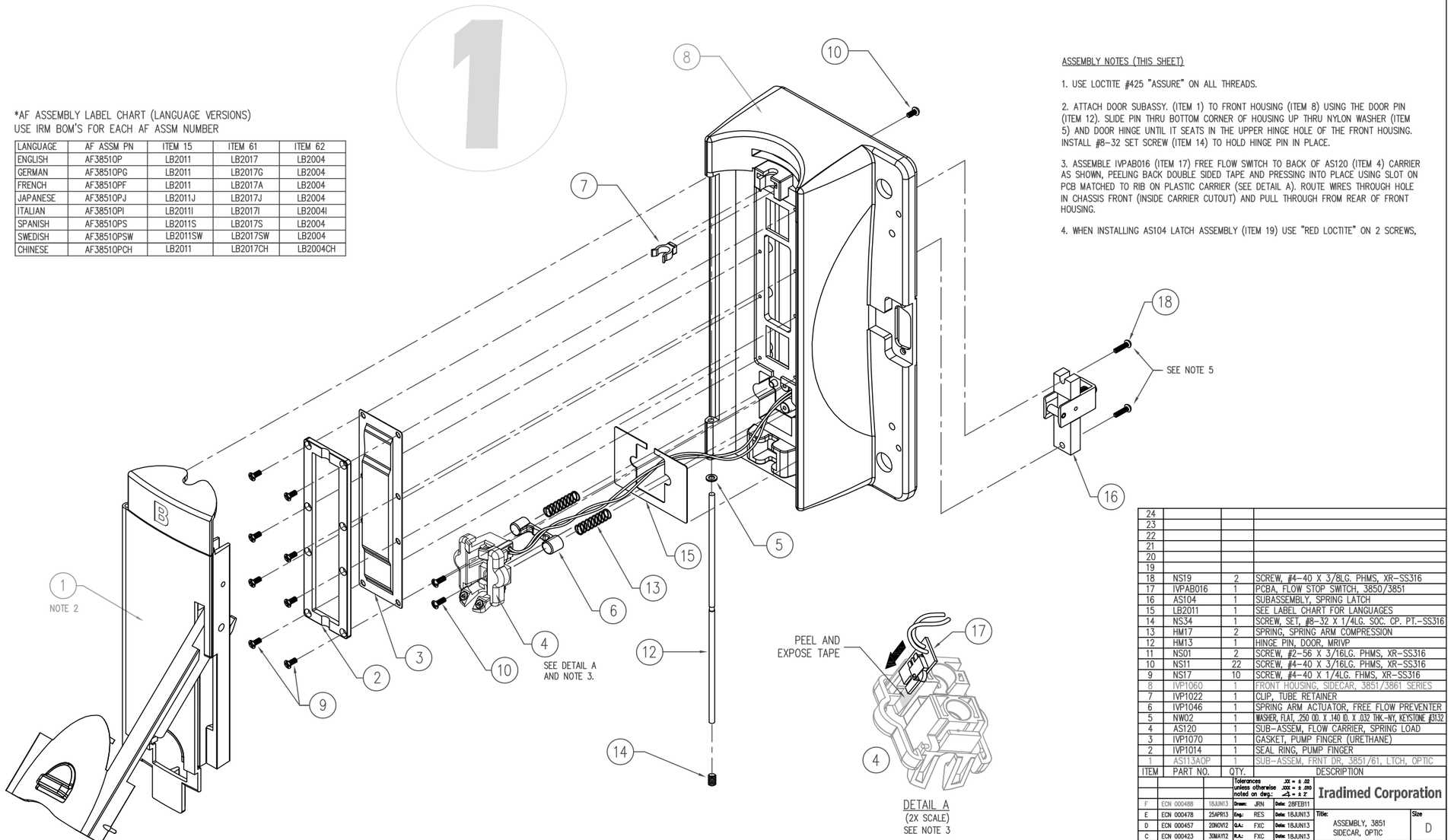
Rev.	Description	Date
Revision History		

LF21 Rev. A

Figure 5-88. AF3851OP SideCar Assembly Sheet 4 of 4**

*AF ASSEMBLY LABEL CHART (LANGUAGE VERSIONS)
USE IRM BOM'S FOR EACH AF ASSM NUMBER

LANGUAGE	AF ASSM PN	ITEM 15	ITEM 61	ITEM 62
ENGLISH	AF38510P	LB2011	LB2017	LB2004
GERMAN	AF38510PG	LB2011	LB2017G	LB2004
FRENCH	AF38510PF	LB2011	LB2017A	LB2004
JAPANESE	AF38510PJ	LB2011J	LB2017J	LB2004
ITALIAN	AF38510PI	LB2011I	LB2017I	LB2004I
SPANISH	AF38510PS	LB2011S	LB2017S	LB2004
SWEDISH	AF38510PSW	LB2011SW	LB2017SW	LB2004
CHINESE	AF38510PCH	LB2011	LB2017CH	LB2004CH



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. ATTACH DOOR SUBASSY. (ITEM 1) TO FRONT HOUSING (ITEM 8) USING THE DOOR PIN (ITEM 12). SLIDE PIN THRU BOTTOM CORNER OF HOUSING UP THRU NYLON WASHER (ITEM 5) AND DOOR HINGE UNTIL IT SEATS IN THE UPPER HINGE HOLE OF THE FRONT HOUSING. INSTALL #8–32 SET SCREW (ITEM 14) TO HOLD HINGE PIN IN PLACE.

3. ASSEMBLE IVPAB016 (ITEM 17) FREE FLOW SWITCH TO BACK OF AS120 (ITEM 4) CARRIER AS SHOWN, PEELING BACK DOUBLE SIDED TAPE AND PRESSING INTO PLACE USING SLOT ON PCB MATCHED TO RIB ON PLASTIC CARRIER (SEE DETAIL A). ROUTE WIRES THROUGH HOLE IN CHASSIS FRONT (INSIDE CARRIER CUTOUT) AND PULL THROUGH FROM REAR OF FRONT HOUSING.

4. WHEN INSTALLING AS104 LATCH ASSEMBLY (ITEM 19) USE "RED LOCTITE" ON 2 SCREWS,

ITEM	PART NO.	QTY.	DESCRIPTION
24			
23			
22			
21			
20			
19			
18	NS19	2	SCREW, #4–40 X 3/8LG. PHMS, XR–SS316
17	IVPAB016	1	PCBA, FLOW STOP SWITCH, 3850/3851
16	AS104	1	SUBASSEMBLY, SPRING LATCH
15	LB2011	1	SEE LABEL CHART FOR LANGUAGES
14	NS34	1	SCREW, SET, #8–32 X 1/4LG. SOC. CP. PT.–SS316
13	HM17	2	SPRING, SPRING ARM COMPRESSION
12	HM13	1	HINGE PIN, DOOR, MRIVP
11	NS01	2	SCREW, #2–56 X 3/16LG. PHMS, XR–SS316
10	NS11	22	SCREW, #4–40 X 3/16LG. PHMS, XR–SS316
9	NS17	10	SCREW, #4–40 X 1/4LG. FHMS, XR–SS316
8	IVP1060	1	FRONT HOUSING, SIDECAR, 3851/3861 SERIES
7	IVP1022	1	CLIP, TUBE RETAINER
6	IVP1046	1	SPRING ARM ACTUATOR, FREE FLOW PREVENTER
5	NW02	1	WASHER, FLAT, .250 OD. X .140 ID. X .032 THK–NY, KEYSTONE #3132
4	AS120	1	SUB–ASSEM, FLOW CARRIER, SPRING LOAD
3	IVP1070	1	GASKET, PUMP FINGER (URETHANE)
2	IVP1014	1	SEAL RING, PUMP FINGER
1	AS113AOP	1	SUB–ASSEM, FRNT DR, 3851/61, LTCH, OPTIC

Rev.	Description	Date
F	ECN 000488	18JUN13
E	ECN 000478	25APR13
D	ECN 000457	20NOV12
C	ECN 000423	30MAY12
B	ECN 000380	12MAY11
A	ECN 000368	28FEB11

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 28FEB11
Eng: RES Date: 18JUN13
Q.A.: FXC Date: 18JUN13
M.A.: FXC Date: 18JUN13
Mfg.: TWF Date: 18JUN13

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: ASSEMBLY, 3851 SIDECAR, OPTIC

Size: D

Part/Dwg. No: AF3851OP

Rev: F

Cad. Scale: NA

Sheet 1 of 4

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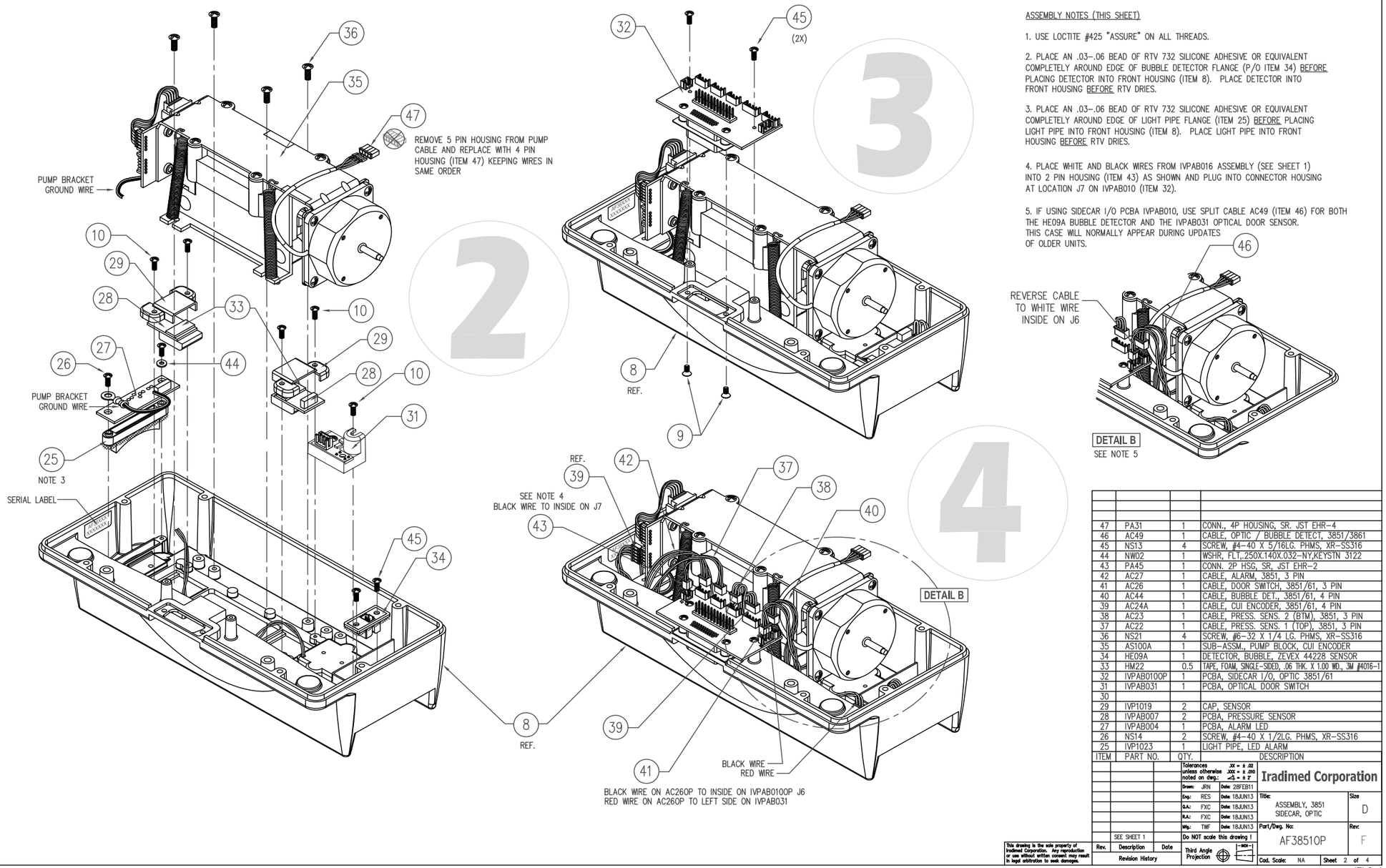
LF21 Rev. A

Figure 5-89. AF3851OP SideCar Assembly Sheet 1 of 4***


PUMP BRACKET GROUND WIRE
REMOVE 5 PIN HOUSING FROM PUMP CABLE AND REPLACE WITH 4 PIN HOUSING (ITEM 47) KEEPING WIRES IN SAME ORDER
PUMP BRACKET GROUND WIRE
NOTE 3
SERIAL LABEL
REF.
SEE NOTE 4
BLACK WIRE TO INSIDE ON J7
BLACK WIRE
RED WIRE
BLACK WIRE ON AC26OP TO INSIDE ON IVPAB010OP J6
RED WIRE ON AC26OP TO LEFT SIDE ON IVPAB031
(2X)
REF.
REVERSE CABLE TO WHITE WIRE INSIDE ON J6
DETAIL B
SEE NOTE 5
DETAIL B

ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. PLACE AN .03–.06 BEAD OF RTV 732 SILICONE ADHESIVE OR EQUIVALENT COMPLETELY AROUND EDGE OF BUBBLE DETECTOR FLANGE (P/O ITEM 34) BEFORE PLACING DETECTOR INTO FRONT HOUSING (ITEM 8). PLACE DETECTOR INTO FRONT HOUSING BEFORE RTV DRIES.

3. PLACE AN .03–.06 BEAD OF RTV 732 SILICONE ADHESIVE OR EQUIVALENT COMPLETELY AROUND EDGE OF LIGHT PIPE FLANGE (ITEM 25) BEFORE PLACING LIGHT PIPE INTO FRONT HOUSING (ITEM 8). PLACE LIGHT PIPE INTO FRONT HOUSING BEFORE RTV DRIES.

4. PLACE WHITE AND BLACK WIRES FROM IVPAB016 ASSEMBLY (SEE SHEET 1) INTO 2 PIN HOUSING (ITEM 43) AS SHOWN AND PLUG INTO CONNECTOR HOUSING AT LOCATION J7 ON IVPAB010 (ITEM 32).

5. IF USING SIDECAR I/O PCBA IVPAB010, USE SPLIT CABLE AC49 (ITEM 46) FOR BOTH THE HE09A BUBBLE DETECTOR AND THE IVPAB031 OPTICAL DOOR SENSOR. THIS CASE WILL NORMALLY APPEAR DURING UPDATES OF OLDER UNITS.

ITEM	PART NO.	QTY.	DESCRIPTION
47	PA31	1	CONN., 4P HOUSING, SR. JST EHR-4
46	AC49	1	CABLE, OPTIC / BUBBLE DETECT, 3851/3861
45	NS13	4	SCREW, #4-40 X 5/16LG. PHMS, XR-SS316
44	NW02	1	WSHR, FLT,.250X.140X.032-NY,KEYSTN 3122
43	PA45	1	CONN. 2P HSG, SR, JST EHR-2
42	AC27	1	CABLE, ALARM, 3851, 3 PIN
41	AC26	1	CABLE, DOOR SWITCH, 3851/61, 3 PIN
40	AC44	1	CABLE, BUBBLE DET., 3851/61, 4 PIN
39	AC24A	1	CABLE, CUI ENCODER, 3851/61, 4 PIN
38	AC23	1	CABLE, PRESS. SENS. 2 (BTM), 3851, 3 PIN
37	AC22	1	CABLE, PRESS. SENS. 1 (TOP), 3851, 3 PIN
36	NS21	4	SCREW, #6-32 X 1/4 LG. PHMS, XR-SS316
35	AS100A	1	SUB-ASSM., PUMP BLOCK, CUI ENCODER
34	HE09A	1	DETECTOR, BUBBLE, ZEVEX 44228 SENSOR
33	HM22	0.5	TAPE, FOAM, SINGLE-SIDED, .06 THK. X 1.00 WD., 3M #4016-1
32	IVPAB0100P	1	PCBA, SIDECAR I/O, OPTIC 3851/61
31	IVPAB031	1	PCBA, OPTICAL DOOR SWITCH
30			
29	IVP1019	2	CAP, SENSOR
28	IVPAB007	2	PCBA, PRESSURE SENSOR
27	IVPAB004	1	PCBA, ALARM LED
26	NS14	2	SCREW, #4-40 X 1/2LG. PHMS, XR-SS316
25	IVP1023	1	LIGHT PIPE, LED ALARM

Tolerances unless otherwise noted on dwg.: XX = ± .02, XXX = ± .010, ∠'s = ± 2°

Drawn: JRN Date: 28FEB11
Eng.: RES Date: 18JUN13
Q.A.: FXC Date: 18JUN13
R.A.: FXC Date: 18JUN13
Mfg.: TWF Date: 18JUN13

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: ASSEMBLY, 3851 SIDECAR, OPTIC

Size: D

Part/Dwg. No: AF3851OP

Rev: F

Cad. Scale: NA

Sheet 2 of 4

LF21 Rev. A

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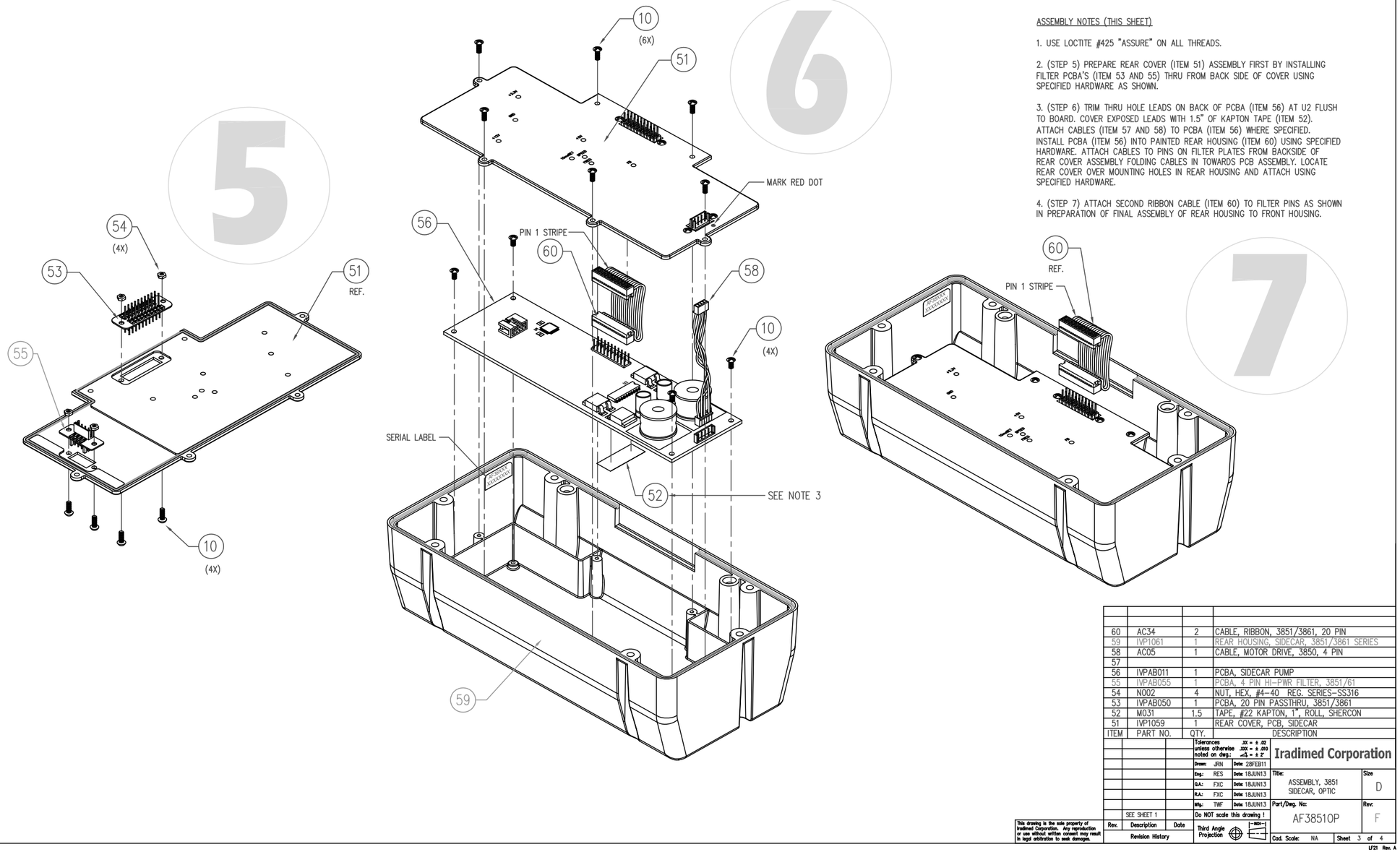
Revision History

Rev.	Description	Date
	SEE SHEET 1	

Figure 5-90. AF3851OP SideCar Assembly Sheet 2 of 4***



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. (STEP 5) PREPARE REAR COVER (ITEM 51) ASSEMBLY FIRST BY INSTALLING FILTER PCBA'S (ITEM 53 AND 55) THRU FROM BACK SIDE OF COVER USING SPECIFIED HARDWARE AS SHOWN.

3. (STEP 6) TRIM THRU HOLE LEADS ON BACK OF PCBA (ITEM 56) AT U2 FLUSH TO BOARD. COVER EXPOSED LEADS WITH 1.5" OF KAPTON TAPE (ITEM 52). ATTACH CABLES (ITEM 57 AND 58) TO PCBA (ITEM 56) WHERE SPECIFIED. INSTALL PCBA (ITEM 56) INTO PAINTED REAR HOUSING (ITEM 60) USING SPECIFIED HARDWARE. ATTACH CABLES TO PINS ON FILTER PLATES FROM BACKSIDE OF REAR COVER ASSEMBLY FOLDING CABLES IN TOWARDS PCB ASSEMBLY. LOCATE REAR COVER OVER MOUNTING HOLES IN REAR HOUSING AND ATTACH USING SPECIFIED HARDWARE.

4. (STEP 7) ATTACH SECOND RIBBON CABLE (ITEM 60) TO FILTER PINS AS SHOWN IN PREPARATION OF FINAL ASSEMBLY OF REAR HOUSING TO FRONT HOUSING.

ITEM	PART NO.	QTY.	DESCRIPTION
60	AC34	2	CABLE, RIBBON, 3851/3861, 20 PIN
59	IVP1061	1	REAR HOUSING, SIDECAR, 3851/3861 SERIES
58	AC05	1	CABLE, MOTOR DRIVE, 3850, 4 PIN
57			
56	IVPAB011	1	PCBA, SIDECAR PUMP
55	IVPAB055	1	PCBA, 4 PIN HI-PWR FILTER, 3851/61
54	N002	4	NUT, HEX, #4-40 REG. SERIES-SS316
53	IVPAB050	1	PCBA, 20 PIN PASSTHRU, 3851/3861
52	M031	1.5	TAPE, #22 KAPTON, 1", ROLL, SHERCON
51	IVP1059	1	REAR COVER, PCB, SIDECAR

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Iradimed Corporation

Drawn: JRN Date: 28FEB11
Eng.: RES Date: 18JUN13
Q.A.: FXC Date: 18JUN13
R.A.: FXC Date: 18JUN13
Mfg.: TNF Date: 18JUN13

Do NOT scale this drawing !

Title: ASSEMBLY, 3851 SIDECAR, OPTIC

Size: D

Part/Dwg. No: AF3851OP

Rev: F

Cad. Scale: NA Sheet 3 of 4

SEE SHEET 1

Rev. Description Date

Revision History

Third Angle Projection

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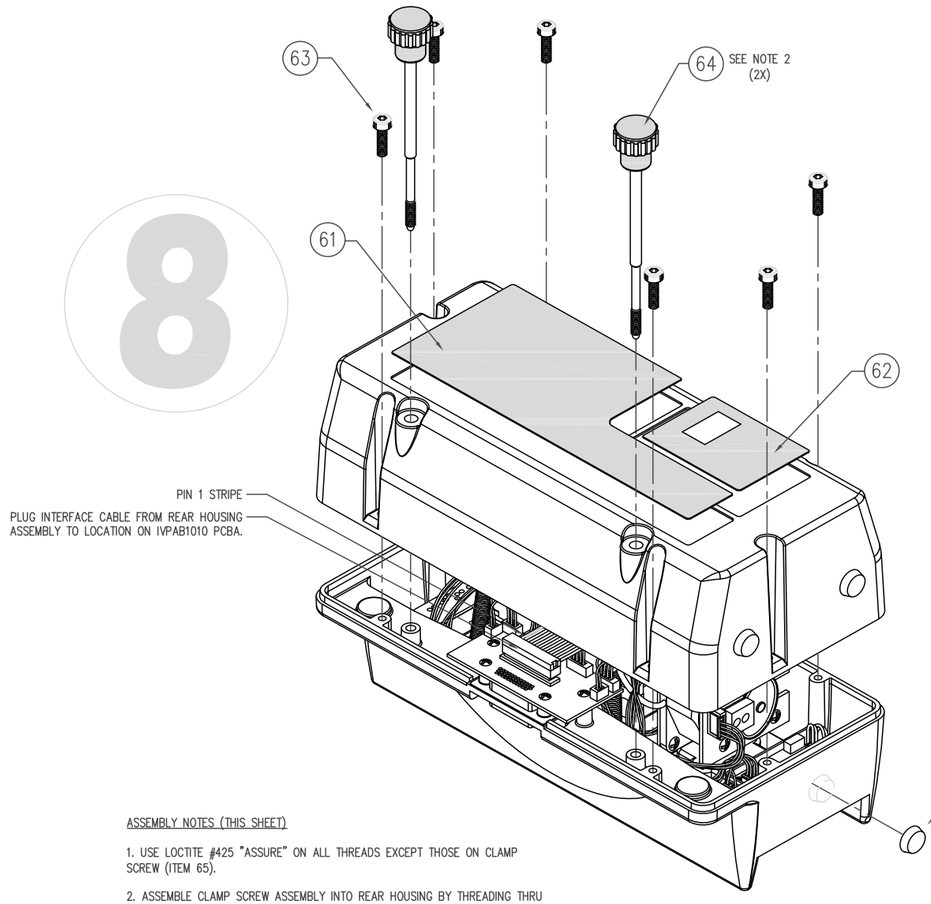
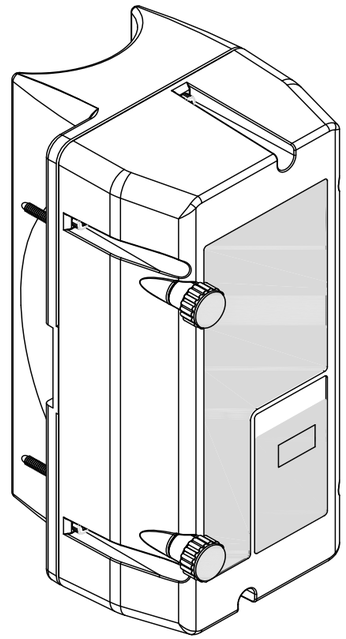
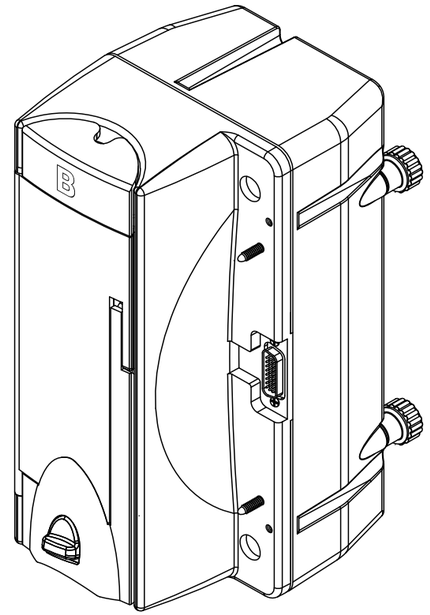
LF21 Rev. A

Figure 5-91. AF3851OP SideCar Assembly Sheet 3 of 4***







ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS EXCEPT THOSE ON CLAMP SCREW (ITEM 65).

2. ASSEMBLE CLAMP SCREW ASSEMBLY INTO REAR HOUSING BY THREADING THRU FROM BACKSIDE AS SHOWN AND ALLOWING ASSEMBLY TO THEN FALL THRU TO FRONT HOUSING. INSURE CLAMP SCREW CAN "FREE SPIN" ONCE ASSEMBLED.

ITEM	PART NO.	QTY.	DESCRIPTION
65	HM03	3	FOOT, CLEAR BUMPON (SJ5312-7-ND)
64	AS134	2	SUB-ASSM, CLAMP SCREW, SIDECAR
63	NS32	6	SCREW,#8-32 X 1/2LG. PHMS, XR-SS316
62	LB2004	1	SEE LABEL CHART SHEET 1
61	LB2017	1	SEE LABEL CHART SHEET 1

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Iradimed Corporation

Drawn: JRN Date: 28FEB11
Eng.: RES Date: 18JUN13
Q.A.: FXC Date: 18JUN13
R.A.: FXC Date: 18JUN13
Mfg.: TMF Date: 18JUN13

Do NOT scale this drawing !

Title: ASSEMBLY, 3851 SIDECAR, OPTIC
Size: D
Part/Dwg. No: AF3851OP
Rev: F
Cad. Scale: NA
Sheet 4 of 4

SEE SHEET 1

Rev.	Description	Date
Revision History		

Third Angle Projection

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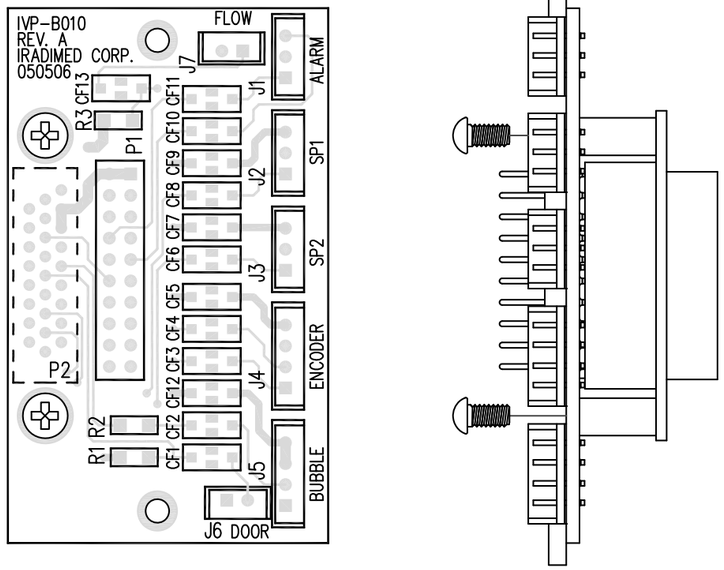
LF21 Rev. A

Figure 5-92. AF3851OP SideCar Assembly Sheet 4 of 4***



NOTES:

1. MOUNT CONNECTOR AT LOCATION P2 FROM BACKSIDE OF PCB USING 2 #4-40 X 3/16 SCREWS (NS11).

REF. ELECTRONIC B.O.M. IVPAB010 REV. C

Rev.	Description	Date
C	ECN 000258	24JUL08
B	ECN 000086	05MAY06
A	ECN 000023	30DEC05

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 20JAN05
Eng.: RES Date: 24JUL08
Q.A.: FXC Date: 24JUL08
R.A.: FXC Date: 24JUL08
Mfg.: TWF Date: 24JUL08

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: PCBA, SIDECAR I/O 3851 SIDECAR
Size: B
Part/Dwg. No: IVPAB010
Rev: C
Cad. Scale: 2:1
Sheet 1 of 1

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LF19 Rev. A

Figure 5-93. IVPAB010 I/O INTERFACE PCBA

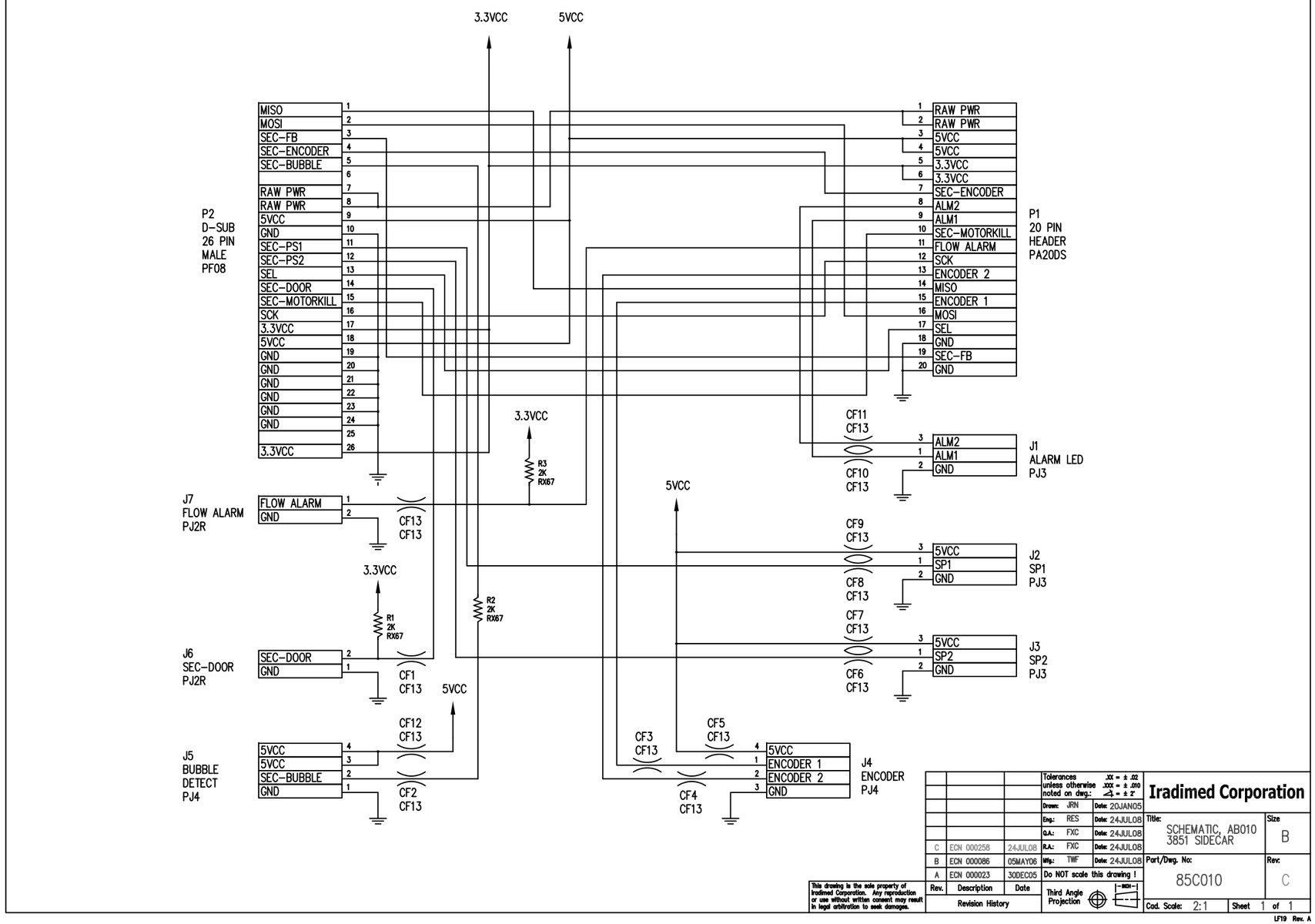
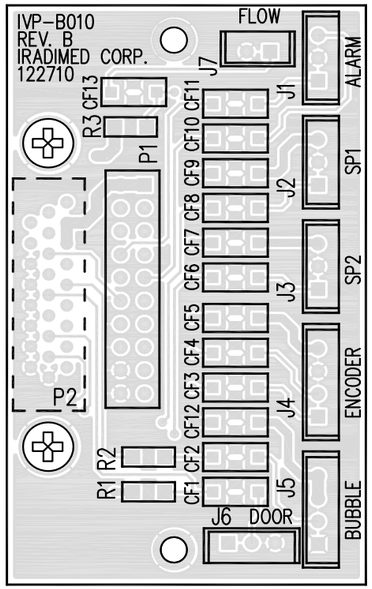
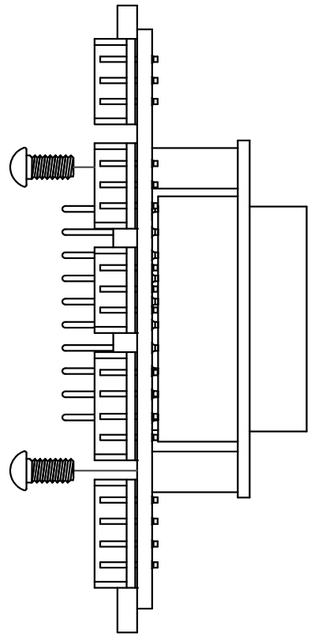


Figure 5-94. IVPAB010 (85C010) SideCar I/O Interface Schematic





NOTES:

1. MOUNT CONNECTOR AT LOCATION P2 FROM BACKSIDE OF PCB USING 2 #4-40 X 3/16 SCREWS (NS11).

2. ASSEMBLY MUST USE B010 REV. B PCB OR HIGHER.

3. ASSEMBLY MUST MEET IPC-610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

REF. ELECTRONIC B.O.M. IVPAB0100P REV. B

Rev.	Description	Date
B	ECN 000378	19APR11
A	ECN 000368	28FEB11

Revision History

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Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN	Date: 28FEB11	
Eng.: RES	Date: 19APR11	
Q.A.: FXC	Date: 19APR11	
R.A.: FXC	Date: 19APR11	
Mfg.: TWF	Date: 19APR11	

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: PCBA, SIDECAR I/O 3851/61 OPTIC

Size: B

Part/Dwg. No: IVPAB0100P

Rev: B

Cad. Scale: 2:1

Sheet 1 of 1

LF19 Rev. A

Figure 5-95. IVPAB010OP SideCar I/O Interface PCBA**

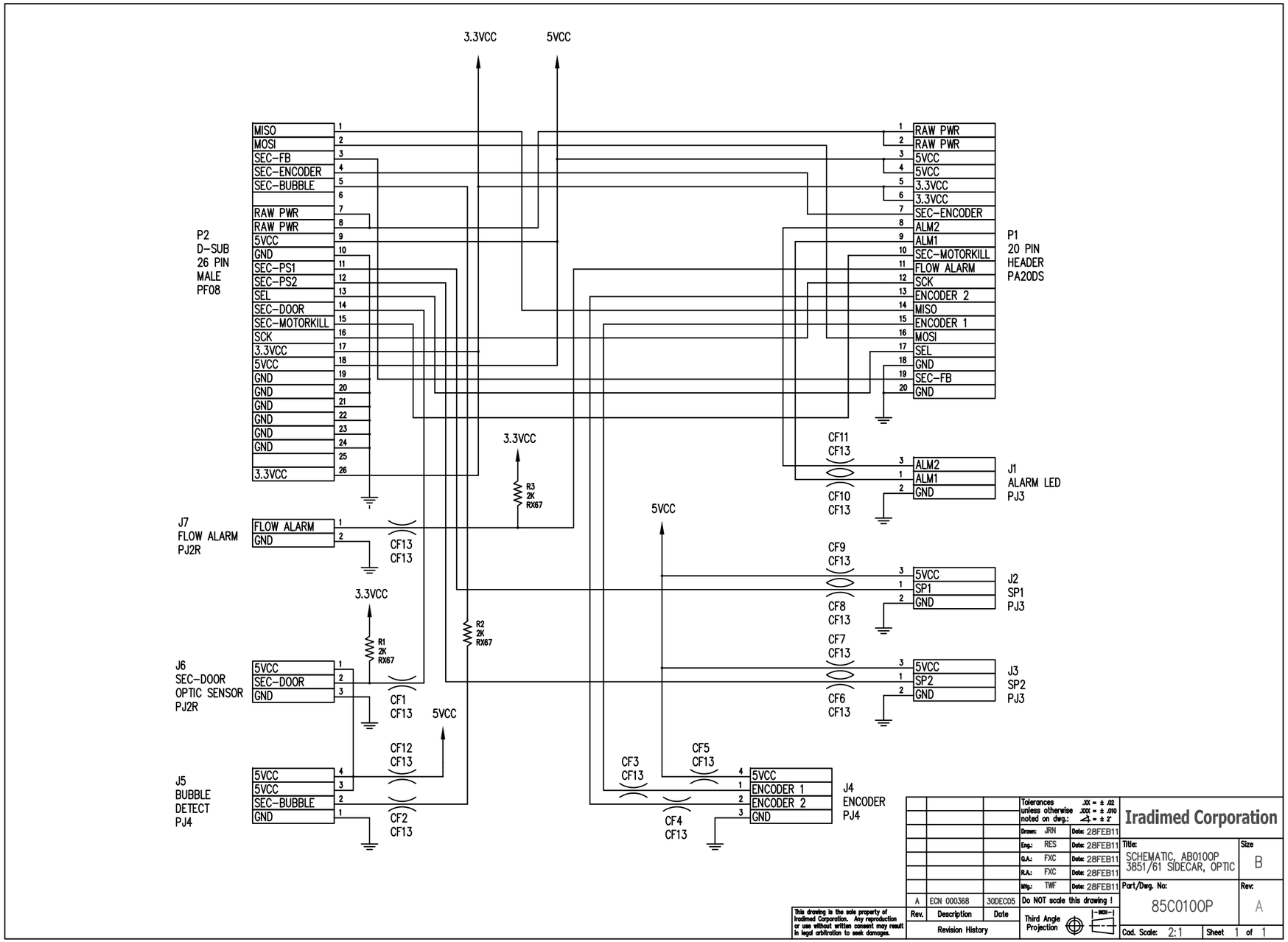
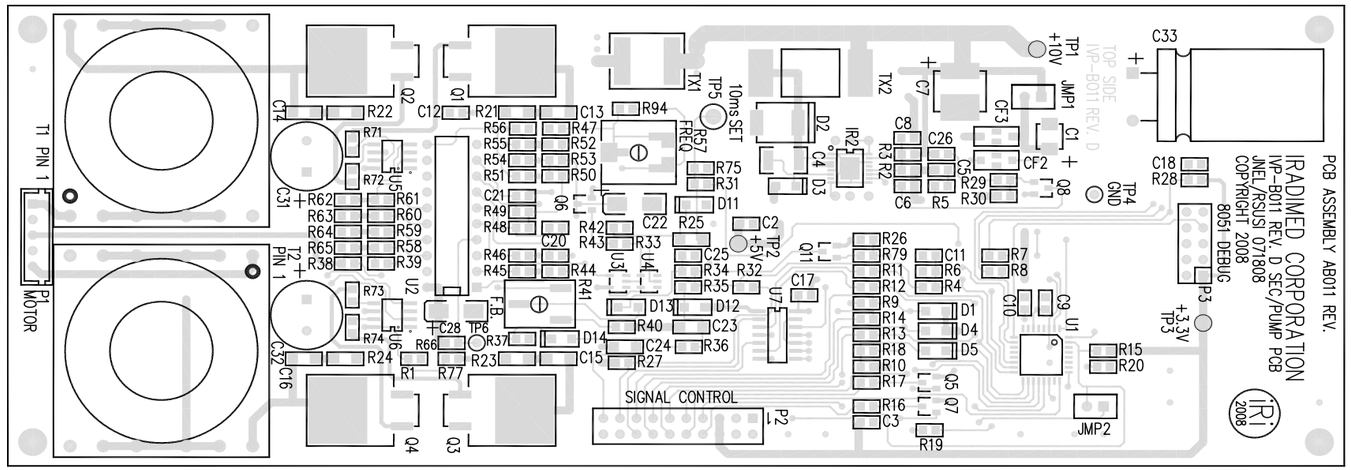


Figure 5-96. IVPAB010OP (85C010OP) SideCar I/O Interface Schematic



NOTES:

1. ASSEMBLY REVISION G WILL USE BLANK PCB IVP-B011 REV. D. USE IRADIMED BOM IVPAB011 REV. G FOR LIST OF ITEM NUMBERS AND COMPONENTS.

2. PCBA TO BE SUPPLIED WITH SOFTWARE INSTALLED. SEE SI001 FOR PROGRAMMING INSTRUCTIONS.

Rev.	Description	Date
G	ECN 000250	18JUL08
F	ECN 000196	04MAY07
E	ECN 000195	10APR07
D	ECN 000118	11AUG06
C	ECN 000094	25MAY06
B	ECN 000027	10JAN06
A	PROD RELEASE	03NOV05
0	PROTOTYPE	08/05

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 15AUG05
Eng.: RES Date: 18JUL08
Q.A.: FXC Date: 18JUL08
R.A.: FXC Date: 18JUL08
Mfg.: TWF Date: 18JUL08

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: ASSEMBLY: SEC/PUMP PCB SIDE CAR 3851

Size: C

Part/Dwg. No: IVPAB011

Rev: G

Cad. Scale: 2:1

Sheet 1 of 1

LF20 Rev. A

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Figure 5-97. IVPAB011 SideCar Secondary Pump PCBA Assembly

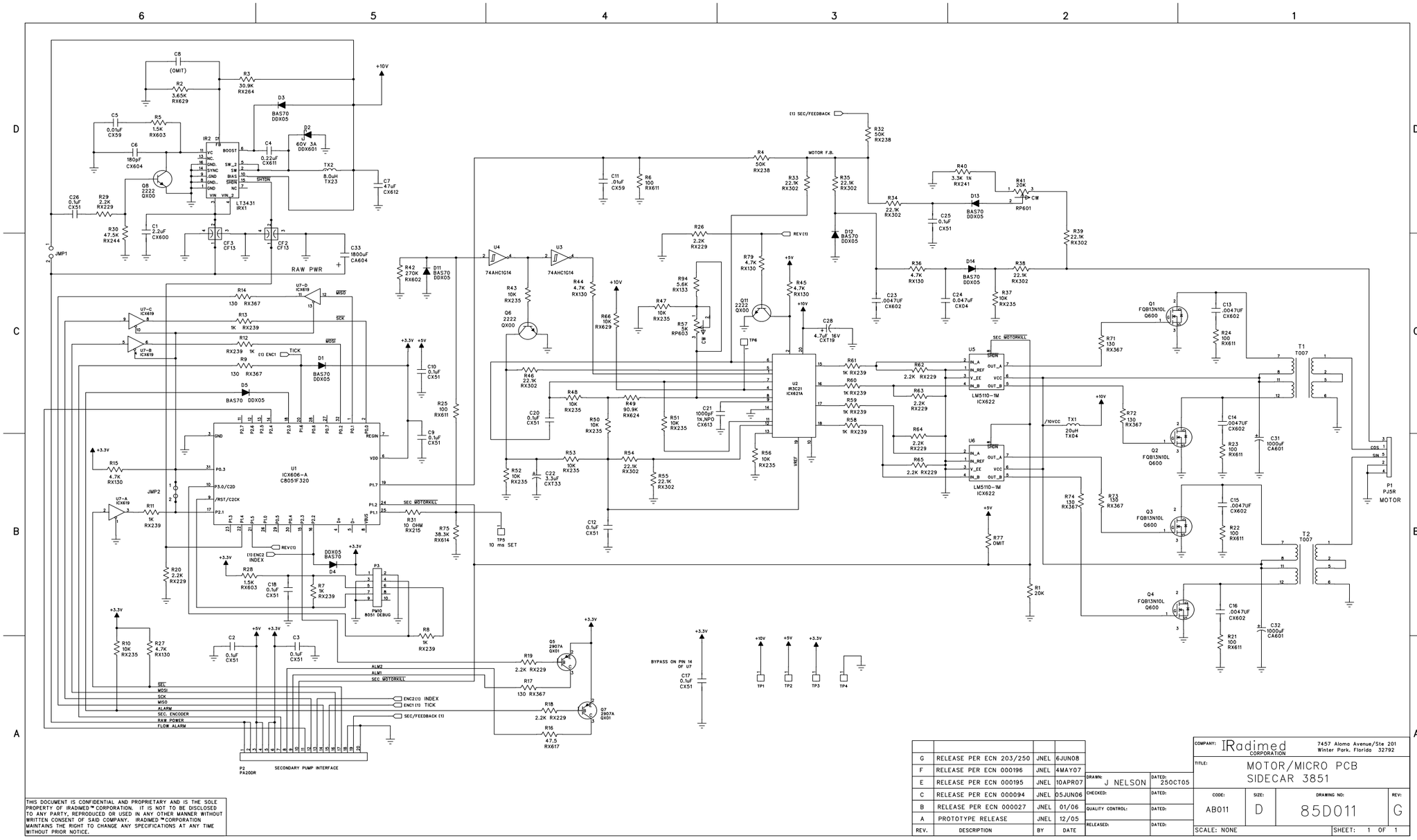
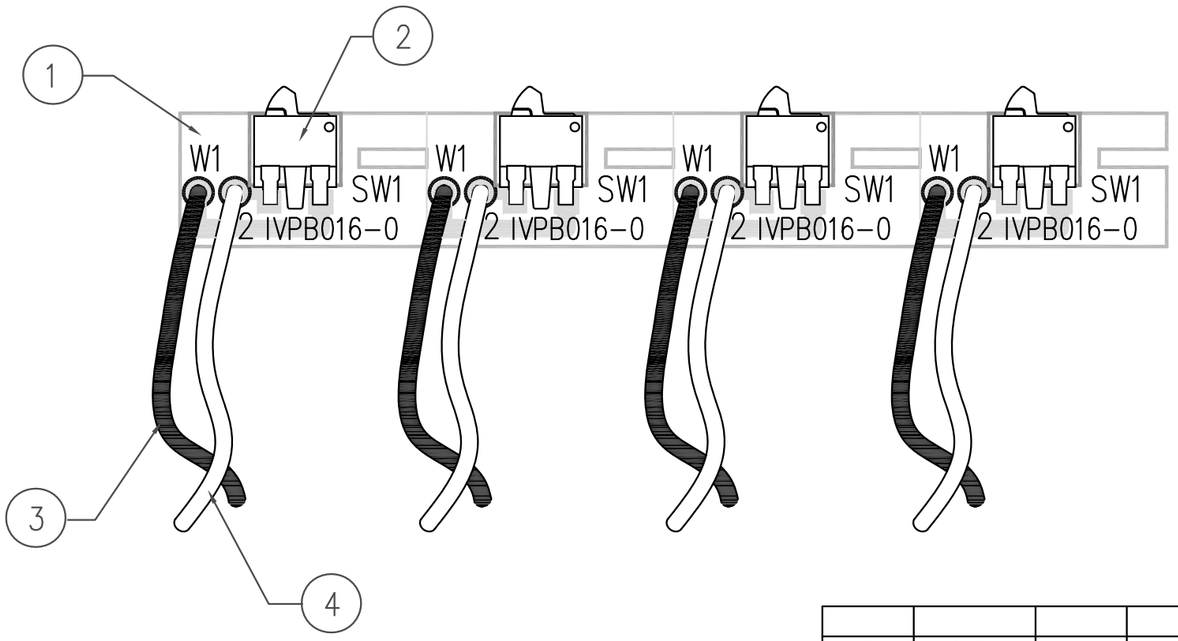


Figure 5-98. IVPAB011 (85D011) SideCar Secondary Pump PCBA Schematic



NOTES

1. STRIP WIRES (ITEMS 3–4) 0.19–0.25 BOTH ENDS BEFORE CRIMPING TERMINALS (ITEM 5) 1 EACH.
2. AFTER CRIMPING TERMINALS (ITEM 5) ONTO WIRES (ITEMS 3–4), TWIST WIRES 1–2 TURNS PER INCH. SOLDER OTHER END OF WIRES TO PCB WITH BLACK WIRE TO LOCATION W1 AND WHITE WIRE TO LOCATION W2.
3. SOLDER SWITCH (ITEM 2) IN PLACE ON PCB IN MARKED SW1 LOCATION.
4. CONTINUE WITH THIS ASSEMBLY ON REMAINING PCB PANELS.
5. BREAK AWAY PANELS ON SCORE LINES TO PROVIDE 4 FINISHED ASSEMBLIES.
6. ASSEMBLY MUST MEET IPC–610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

ITEM NO.	PART NO.	QTY.	DESCRIPTION
5	PA36	2	TERM., CRIMP, 22–30 GA, JST SEH–001T–P0.6
4	W004	10.00	WIRE, WHITE, UL1429–26/19
3	W003	10.00	WIRE, BLACK, UL1429–26/19
2	HE16	1	SWITCH, DETECTOR 2MM HORZ MT SMD
1	B016	1	PCB, FREE FLOW SWITCH 3850/3851

PARTS LIST

Rev.	Description	Date
A	ECN 000331	12JAN10

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 03MAR06
Eng.: GRB Date: 12JAN10
Q.A.: FXC Date: 12JAN10
R.A.: FXC Date: 12JAN10
Mfg.: TWF Date: 12JAN10

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: PCB ASSM., FREE FLOW SWITCH 3850/51, 3860/61

Size: C

Part/Dwg. No.: IVPAB016

Rev.: A

Cad. Scale: Sheet of

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ECN 000006

LF19 Rev. A

Figure 5-99. IVPAB016 Free Flow Switch PCB Assembly

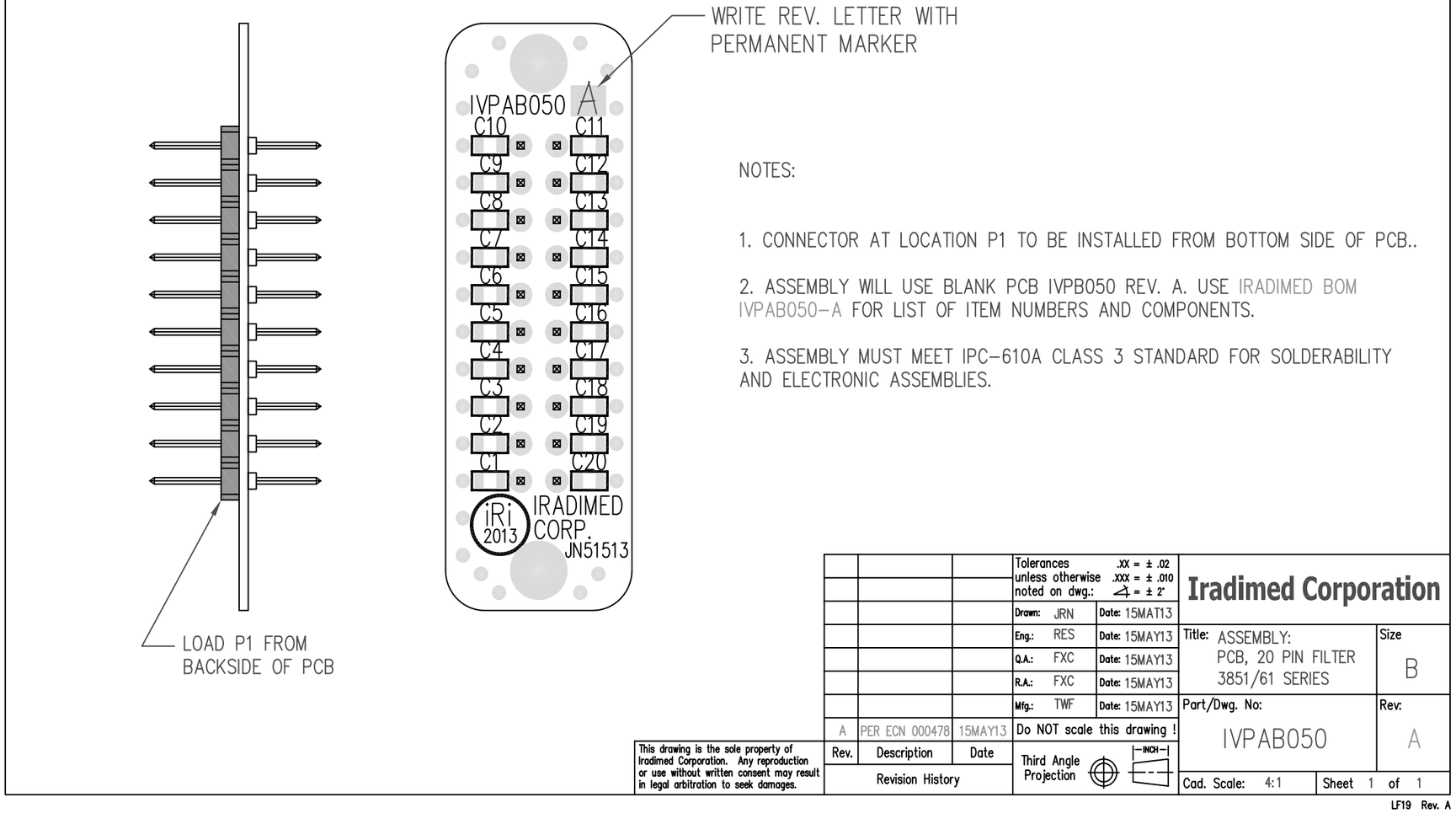
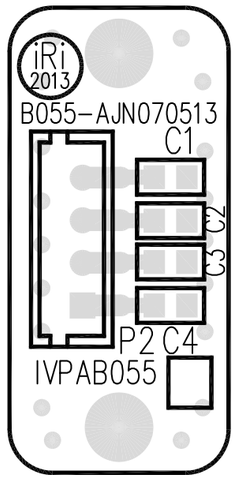


Figure 5-100. IVPAB050 20 Pin Inline Filter PCBA



NOTES:

1. CONNECTOR AT LOCATION P1 TO BE INSTALLED FROM BOTTOM SIDE OF PCB..

2. ASSEMBLY WILL USE BLANK PCB IVPB055 REV. A. USE IRADIMED BOM IVPAB055-A FOR LIST OF ITEM NUMBERS AND COMPONENTS.

3. ASSEMBLY MUST MEET IPC-610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

			Tolerances unless otherwise noted on dwg.:	.XX = ± .02 .XXX = ± .010 ∠ = ± 2°	Iradimed Corporation
			Drawn: JRN	Date: 15MAY13	
			Eng.: RES	Date: 15MAY13	Title: ASSEMBLY: PCB, 4 PIN HI-PWR FILTER 3851/3861 — Size: B
			Q.A.: FXC	Date: 15MAY13	
			R.A.: FXC	Date: 15MAY13	
			Mfg.: TWF	Date: 15MAY13	Part/Dwg. No: IVPAB055 — Rev: A
A	PER ECN 000478	15MAY13	Do NOT scale this drawing !		
Rev.	Description	Date	Third Angle Projection — INCH		Cad. Scale: 4:1 — Sheet 1 of 1
Revision History					

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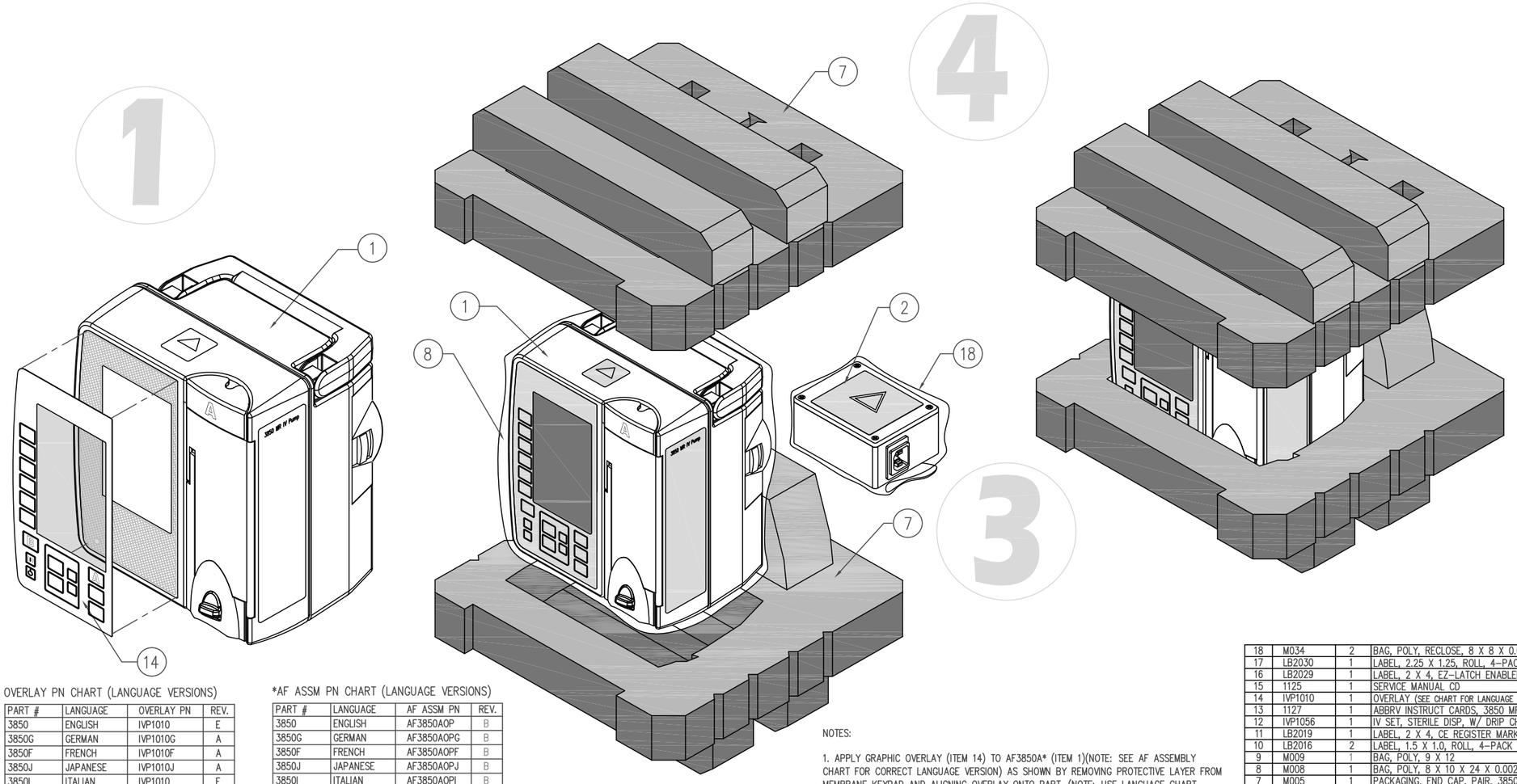
LF19 Rev. A

Figure 5-101. IVPAB055 4 Pin Hi-Power Inline Filter PCBA



OVERLAY PN CHART (LANGUAGE VERSIONS)

PART #	LANGUAGE	OVERLAY PN	REV.
3850	ENGLISH	IVP1010	E
3850G	GERMAN	IVP1010G	A
3850F	FRENCH	IVP1010F	A
3850J	JAPANESE	IVP1010J	A
3850I	ITALIAN	IVP1010	E
3850S	SPANISH	IVP1010	E
3850SW	SWEDISH	IVP1010	E
3850CH	CHINESE	IVP1010	E

*AF ASSM PN CHART (LANGUAGE VERSIONS)

PART #	LANGUAGE	AF ASSM PN	REV.
3850	ENGLISH	AF3850AOP	B
3850G	GERMAN	AF3850AOPG	B
3850F	FRENCH	AF3850AOPF	B
3850J	JAPANESE	AF3850AOPJ	B
3850I	ITALIAN	AF3850AOPI	B
3850S	SPANISH	AF3850AOPS	B
3850SW	SWEDISH	AF3850AOPSW	B
3850CH	CHINESE	AF3850AOPCH	B

*1120 PN CHART (LANGUAGE VERSIONS)

PART #	LANGUAGE	1120 PN	REV.
3850	ENGLISH	1120	C
3850G	GERMAN	1120G	A
3850J	JAPANESE	1120J	A
3850I	ITALIAN	1120I	A
3850S	SPANISH	1120S	A
3850SW	SWEDISH	1120SW	A
3850CH	CHINESE	1120CH	A

NOTES:

1. APPLY GRAPHIC OVERLAY (ITEM 14) TO AF3850A* (ITEM 1)(NOTE: SEE AF ASSEMBLY CHART FOR CORRECT LANGUAGE VERSION) AS SHOWN BY REMOVING PROTECTIVE LAYER FROM MEMBRANE KEYPAD AND ALIGNING OVERLAY ONTO PART. (NOTE: USE LANGUAGE CHART PROVIDED FOR OVERLAY PN FOR EACH LANGUAGE OPTION).

2. PREPARE BOTTOM END CAP (ITEM 7) BY USING C SHAPED HANDLE CUTOUT PIECE FROM INSERT AND PUSHING THRU FOAM TO CREATE POCKET FOR POWER SUPPLY. PLACE AF3850 ASSEMBLY (ITEM 1) INTO GUSSETED POLY BAG (ITEM 8) AND WRAP BAG AROUND UNIT FOR PROTECTION. PLACE UNIT IN CUTOUT OF BOTTOM END CAP AS SHOWN.

3. PLACE POWER SUPPLY (ITEM 2)(NOTE: SEE 1120* PN CHART FOR CORRECT LANGUAGE VERSION) INTO 8 X 8 POLY BAG (ITEM 18) AND WRAP AROUND SUPPLY FOR PROTECTION. PLACE SUPPY SECURELY INTO BOTTOM ENDCAP IN AREA FORMED BY C SHAPED CUTOUT.

4. REMOVE C SHAPED CUTOUT IN TOP ENDCAP AND DISCARD. PRESS TOP ENDCAP FIRMLY DOWN ONTO AF3850 ASSEMBLY PREPARING IT FOR BOXING AS SHOWN IN VIEW TO RIGHT.

ITEM	PART NO.	QTY.	DESCRIPTION
18	M034	2	BAG, POLY, RECLOSE, 8 X 8 X 0.002 S-1699
17	LB2030	1	LABEL, 2.25 X 1.25, ROLL, 4-PACK
16	LB2029	1	LABEL, 2 X 4, EZ-LATCH ENABLED, SHIPPER
15	1125	1	SERVICE MANUAL CD
14	IVP1010	1	OVERLAY (SEE CHART FOR LANGUAGE VERSION)
13	1127	1	ABBRV INSTRUCT CARDS, 3850 MR IV PUMP
12	IVP1056	1	IV SET, STERILE DISP, W/ DRIP CHAMBER
11	LB2019	1	LABEL, 2 X 4, CE REGISTER MARK, SHIPPER
10	LB2016	2	LABEL, 1.5 X 1.0, ROLL, 4-PACK
9	M009	1	BAG, POLY, 9 X 12
8	M008	1	BAG, POLY, 8 X 10 X 24 X 0.002 GUSSETED
7	M005	1	PACKAGING, END CAP, PAIR, 3850
6	M004	1	BOX, 14 X 14 X 14 175 LB, WHT., 3850
5	1124	1	OP MANUAL (SEE CHART FOR LANGUAGE VERSION)
4	1122	1	CABLE, DC CHARGER, 10 FT., MR IV PUMP
3	1121	1	AC POWER CORD, HOSPITAL GRADE, 3.0 FT.
2	1120*	1	EXTERNAL DC POWER/CHARGER, MR IV PUMP
1	AF3850A*	1	ASSEMBLY, 3850 MR IV PUMP, VER 2.0

Rev.	Description	Date
J	PER ECN 000380	23JUN11
H	PER ECN 000368	28FEB11
G	PER ECN 000260	20AUG08
F	PER ECN 000239	25FEB08
E	PER ECN 000207	18MAY07
D	PER ECN 000192	22MAR07

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 16MAR06
Eng: RES Date: 23JUN11
Q.A.: FXC Date: 23JUN11
R.A.: FXC Date: 23JUN11
Mfg.: TWF Date: 23JUN11
Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: PACKING ASSEMBLY MRIDIUM 3850
Size: D
Part/Dwg. No: 3850
Rev: J
Cad. Scale: NA
Sheet 1 of 2

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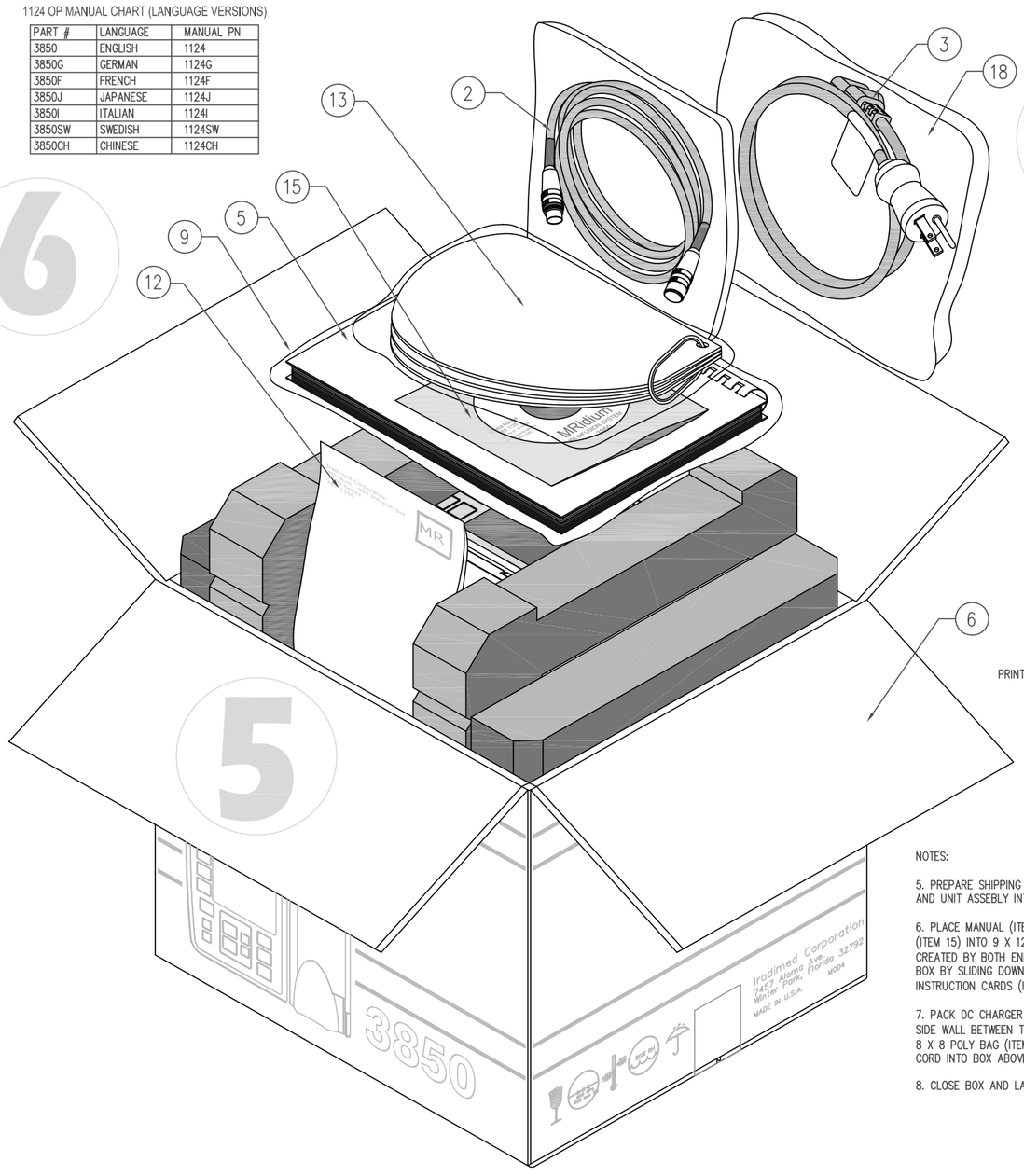
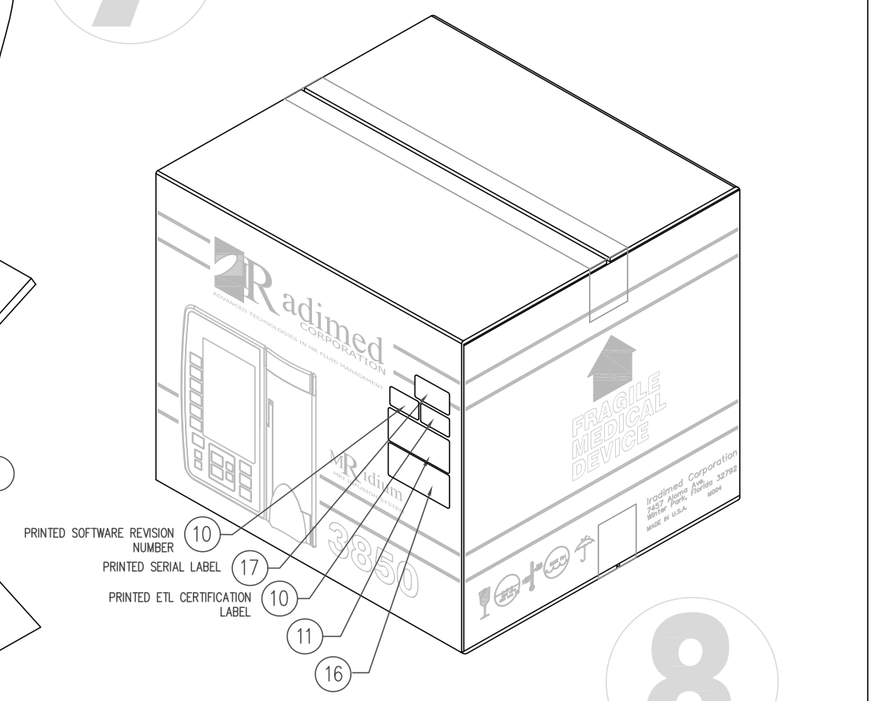
LF21 Rev. A

Figure 5-102. 3850 Final Packing Sheet 1 of 2

1124 OP MANUAL CHART (LANGUAGE VERSIONS)

PART #	LANGUAGE	MANUAL PN
3850	ENGLISH	1124
3850G	GERMAN	1124G
3850F	FRENCH	1124F
3850J	JAPANESE	1124J
3850I	ITALIAN	1124I
3850SW	SWEDISH	1124SW
3850CH	CHINESE	1124CH





NOTES:

5. PREPARE SHIPPING BOX (ITEM 6) BY TAPING THE BOTTOM. ROTATE AND PLACE ENDCAP AND UNIT ASSEBLY INTO BOX AS SHOWN WITH DISPLAY FACING UP.

6. PLACE MANUAL (ITEM 5 SEE CHART FOR LANGUAGE VERSIONS) AND SERVICE MANUAL CD (ITEM 15) INTO 9 X 12 POLY BAG (ITEM 9) AS SHOWN AND INSERT INTO CUTOUT AREA CREATED BY BOTH ENDCAPS ABOVE DISPLAY. PACK SINGLE IV SET IVP1056 (ITEM 12) INTO BOX BY SLIDING DOWN SIDE AS SHOWN BETWEEN BOX WALL AND AF3850R. PLACE 1127 INSTRUCTION CARDS (ITEM 13) ON TOP OF MANUAL.

7. PACK DC CHARGER CORD (ITEM 2) INTO BOX SLIDING ALONG AF3850 ASSEMBLY AND BOX SIDE WALL BETWEEN THE TOP AND BOTTOM ENDCAP. PLACE AC POWER CORD (ITEM 3) INTO 8 X 8 POLY BAG (ITEM 18) AND WRAP TO PROTECT CORD DURING SHIPPING. SLIDE WRAPPED CORD INTO BOX ABOVE DC CABLE BETWEEN AF3850 AND BOX WALL.

8. CLOSE BOX AND LABEL WITH APPROPRIATE SHIPPING, SERIAL AND CERTIFICATION LABELS.

ITEM	PART NO.	QTY.	DESCRIPTION
			Tolerances unless otherwise noted on dwg.: XX = ± .02, XXX = ± .010, ∠ = ± 1°
			Drawn: JRN Date: 16MAR06
			Eng.: RES Date: 23JUN11
			Q.A.: FXC Date: 23JUN11
			R.A.: FXC Date: 23JUN11
			Mfg.: TWF Date: 23JUN11
	SEE SHEET 1		Do NOT scale this drawing !

Iradimed Corporation

Title: PACKING ASSEMBLY MRIDIUM 3850 — Size: D

Part/Dwg. No: 3850 — Rev: J

Cod. Scale: NA — Sheet 2 of 2

Third Angle Projection

Rev.	Description	Date
Revision History		

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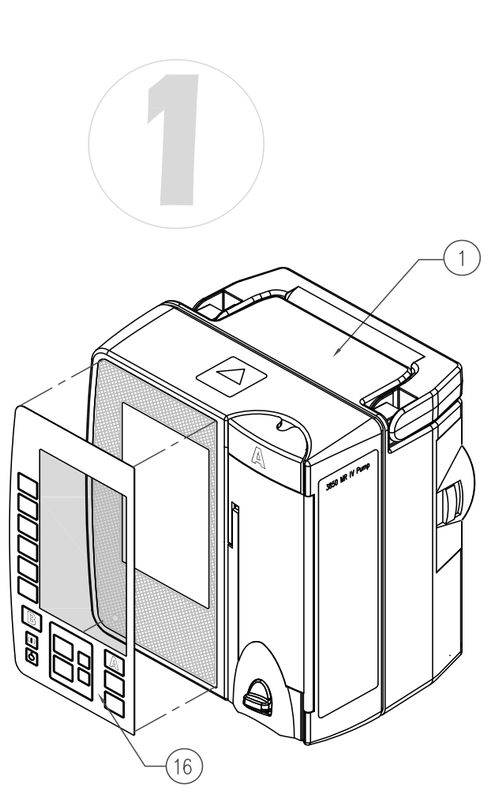
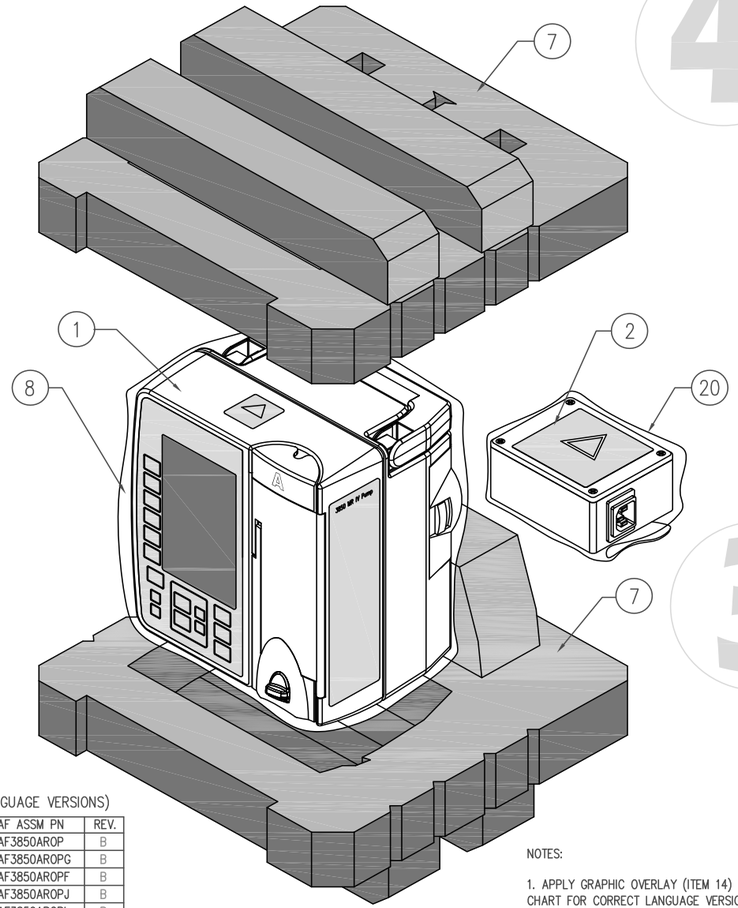
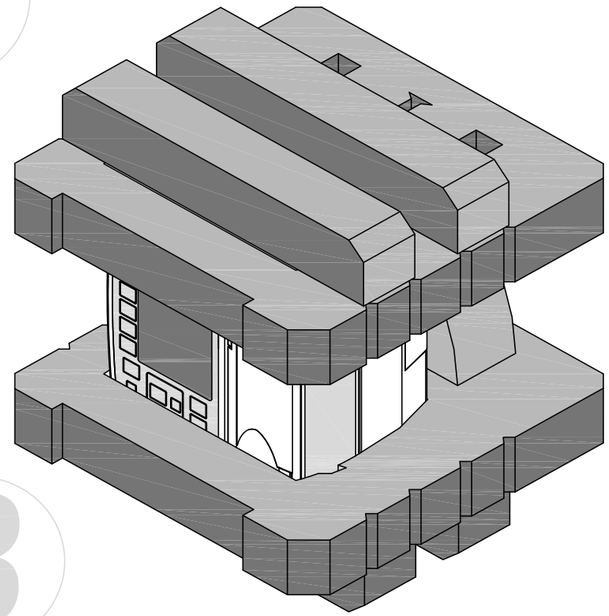
LF21 Rev. A

Figure 5-103. 3850 Final Packing Sheet 2 of 2







OVERLAY PN CHART (LANGUAGE VERSIONS)

PART #	LANGUAGE	OVERLAY PN	REV.
3850	ENGLISH	IVP1010	E
3850G	GERMAN	IVP1010G	A
3850F	FRENCH	IVP1010F	A
3850J	JAPANESE	IVP1010J	A
3850I	ITALIAN	IVP1010	E
3850S	SPANISH	IVP1010	E
3850SW	SWEDISH	IVP1010	E
3850CH	CHINESE	IVP1010	E

*AF ASSM PN CHART (LANGUAGE VERSIONS)

PART #	LANGUAGE	AF ASSM PN	REV.
3850	ENGLISH	AF3850AROP	B
3850G	GERMAN	AF3850AROPG	B
3850F	FRENCH	AF3850AROPF	B
3850J	JAPANESE	AF3850AROPJ	B
3850I	ITALIAN	AF3850AROPI	B
3850S	SPANISH	AF3850AROPS	B
3850SW	SWEDISH	AF3850AROPSW	B
3850CH	CHINESE	AF3850AROPCH	A

*1120 PN CHART (LANGUAGE VERSIONS)

PART #	LANGUAGE	1120 PN	REV.
3850	ENGLISH	1120	C
3850G	GERMAN	1120G	A
3850J	JAPANESE	1120J	A
3850I	ITALIAN	1120I	A
3850S	SPANISH	1120S	A
3850SW	SWEDISH	1120SW	A
3850CH	CHINESE	1120CH	A

NOTES:

1. APPLY GRAPHIC OVERLAY (ITEM 14) TO AF3850AR* (ITEM 1)(NOTE: SEE AF ASSEMBLY CHART FOR CORRECT LANGUAGE VERSION) AS SHOWN BY REMOVING PROTECTIVE LAYER FROM MEMBRANE KEYPAD AND ALIGNING OVERLAY ONTO PART. (NOTE: USE LANGUAGE CHART PROVIDED FOR OVERLAY PN FOR EACH LANGUAGE OPTION).

2. PREPARE BOTTOM END CAP (ITEM 7) BY USING C SHAPED HANDLE CUTOUT PIECE FROM INSERT AND PUSHING THRU FOAM TO CREATE POCKET FOR POWER SUPPLY. PLACE AF3850 ASSEMBLY (ITEM 1) INTO GUSSETED POLY BAG (ITEM 8) AND WRAP BAG AROUND UNIT FOR PROTECTION. PLACE UNIT IN CUTOUT OF BOTTOM END CAP AS SHOWN.

3. PLACE POWER SUPPLY (ITEM 2)(NOTE: SEE 1120* PN CHART FOR CORRECT LANGUAGE VERSION) INTO 8 X 8 POLY BAG (ITEM 18) AND WRAP AROUND SUPPLY FOR PROTECTION. PLACE SUPPY SECURELY INTO BOTTOM ENDCAP IN AREA FORMED BY C SHAPED CUTOUT.

4. REMOVE C SHAPED CUTOUT IN TOP ENDCAP AND DISCARD. PRESS TOP ENDCAP FIRMLY DOWN ONTO AF3850 ASSEMBLY PREPARING IT FOR BOXING AS SHOWN IN VIEW TO RIGHT.

ITEM	PART NO.	QTY.	DESCRIPTION
19	M034	3	BAG, POLY, RECLOSE, 8 X 8 X 0.002 S-1699
19	LB2030	1	LABEL, 2.25 X 1.25, ROLL, 4-PACK
18	LB2029	1	LABEL, 2 X 4, EZ-LATCH ENABLED, SHIPPER
17	1125	1	SERVICE MANUAL CD
16	IVP1010	1	OVERLAY (SEE CHART FOR LANGUAGE VERSION)
15	1127	1	ABBRV INSTRUCT CARDS, 3850 MR IV PUMP
14	HE13	1	ANTENNA. 2.4 GHz, RA, ANT-2.4-CW-RCL-ND
13	M022	1	BAG, POLY 3 X 5, 4MIL, RECLOSABLE
12	IVP1056	1	IV SET, STERILE DISP, W/ DRIP CHAMBER
11	LB2019	1	LABEL, 2 X 4, CE REGISTER MARK, SHIPPER
10	LB2016	2	LABEL, 1.5 X 1.0, ROLL, 4-PACK
9	M009	1	BAG, POLY, 9 X 12
8	M008	1	BAG, POLY, 8 X 10 X 24 X 0.002 GUSSETED
7	M005	1	PACKAGING, END CAP, PAIR, 3850
6	M004	1	BOX, 14 X 14 X 14 175 LB, WHT., 3850
5	1124	1	OP MANUAL (SEE CHART FOR LANGUAGE VERSION)
4	1122	1	CABLE, DC CHARGER, 10 FT., MR IV PUMP
3	1121	1	AC POWER CORD, HOSPITAL GRADE, 3.0 FT.
2	1120*	1	EXTERNAL DC POWER/CHARGER, MR IV PUMP
1	AF3850AR*	1	ASSEMBLY, 3850 PUMP, 2.4GHz RADIO, VER 2.0

Rev.	Description	Date
J	PER ECN 000380	23JUN11
H	PER ECN 000368	07JAN11
G	PER ECN 000260	20AUG08
F	PER ECN 000239	25FEB08
E	PER ECN 000207	18MAY07
D	PER ECN 000192	22MAR07

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 16MAR06
Eng.: RES Date: 23JUN11
Q.A.: FXC Date: 23JUN11
R.A.: FXC Date: 23JUN11
Mfg.: TWF Date: 23JUN11

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: PACKING ASSEMBLY MRIDIUM 3850R
Size: D
Part/Dwg. No: 3850R
Rev: J
Cad. Scale: NA
Sheet 1 of 2

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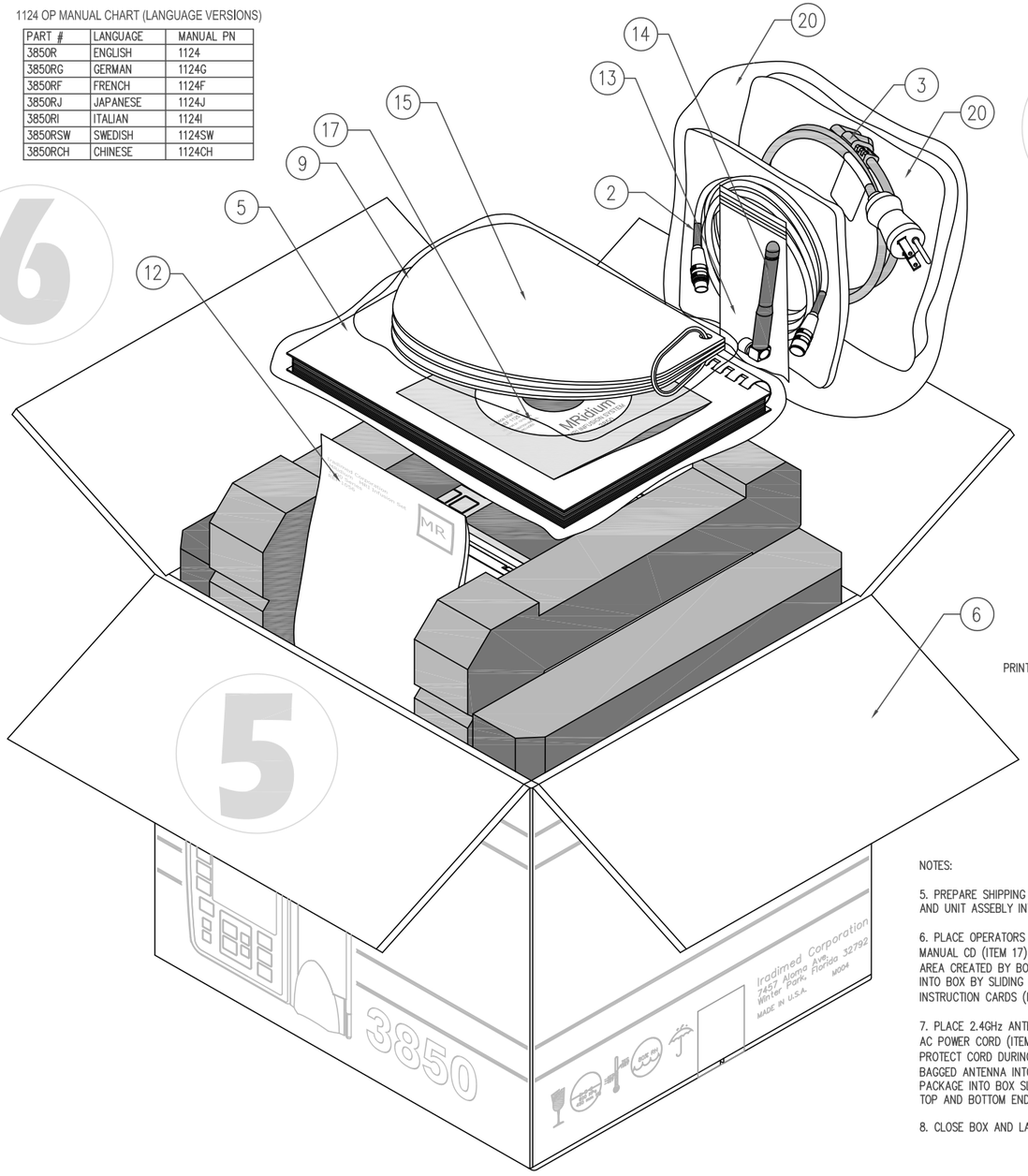
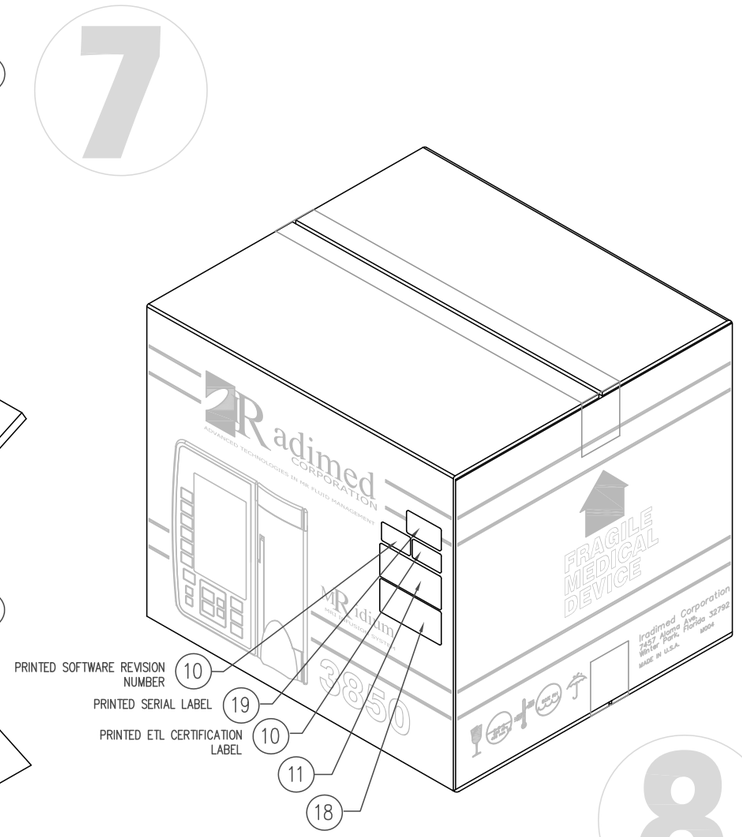
LF21 Rev. A

Figure 5-104. 3850R Final Packing Sheet 1 of 2

1124 OP MANUAL CHART (LANGUAGE VERSIONS)

PART #	LANGUAGE	MANUAL PN
3850R	ENGLISH	1124
3850RG	GERMAN	1124G
3850RF	FRENCH	1124F
3850RJ	JAPANESE	1124J
3850RI	ITALIAN	1124I
3850RSW	SWEDISH	1124SW
3850RCH	CHINESE	1124CH





NOTES:

5. PREPARE SHIPPING BOX (ITEM 6) BY TAPING THE BOTTOM. ROTATE AND PLACE ENDCAP AND UNIT ASSEBLY INTO BOX AS SHOWN WITH DISPLAY FACING UP.

6. PLACE OPERATORS MANUAL (ITEM 5 SEE CHART FOR LANGUAGE VERSIONS) AND SERVICE MANUAL CD (ITEM 17) INTO 9 X 12 POLY BAG (ITEM 9) AS SHOWN AND INSERT INTO CUTOUT AREA CREATED BY BOTH ENDCAPS ABOVE DISPLAY. PACK SINGLE IV SET IVP1056 (ITEM 12) INTO BOX BY SLIDING DOWN SIDE AS SHOWN BETWEEN BOX WALL AND AF3850R. PLACE 1127 INSTRUCTION CARDS (ITEM 15) ON TOP OF MANUAL.

7. PLACE 2.4GHz ANTENNA (ITEM 14) INTO SMALL RECLOSABLE POLY BAG (ITEM 13). PLACE AC POWER CORD (ITEM 3) INTO 8 X 8 RECLOSABLE POLY BAG (ITEM 20) AND WRAP TO PROTECT CORD DURING SHIPPING. PACK DC CHARGER CORD (ITEM 2), BAGGED AC CORD AND BAGGED ANTENNA INTO 8 X 8 RECLOSABLE POLY BAG (ITEM 20). INSERT ENTIRE CORD PACKAGE INTO BOX SLIDING ALONG AF3850R ASSEMBLY AND BOX SIDE WALL BETWEEN THE TOP AND BOTTOM ENDCAPS.

8. CLOSE BOX AND LABEL WITH APPROPRIATE SHIPPING, SERIAL AND CERTIFICATION LABELS.

ITEM	PART NO.	QTY.	DESCRIPTION
	SEE SHEET 1		

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 16MAR06
Eng.: RES Date: 23JUN11
Q.A.: FXC Date: 23JUN11
R.A.: FXC Date: 23JUN11
Mfg.: TWF Date: 23JUN11

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: PACKING ASSEMBLY MRIDIUM 3850R

Size: D

Part/Dwg. No: 3850R

Rev: J

Cad. Scale: NA

Sheet 2 of 2

Rev.	Description	Date
Revision History		

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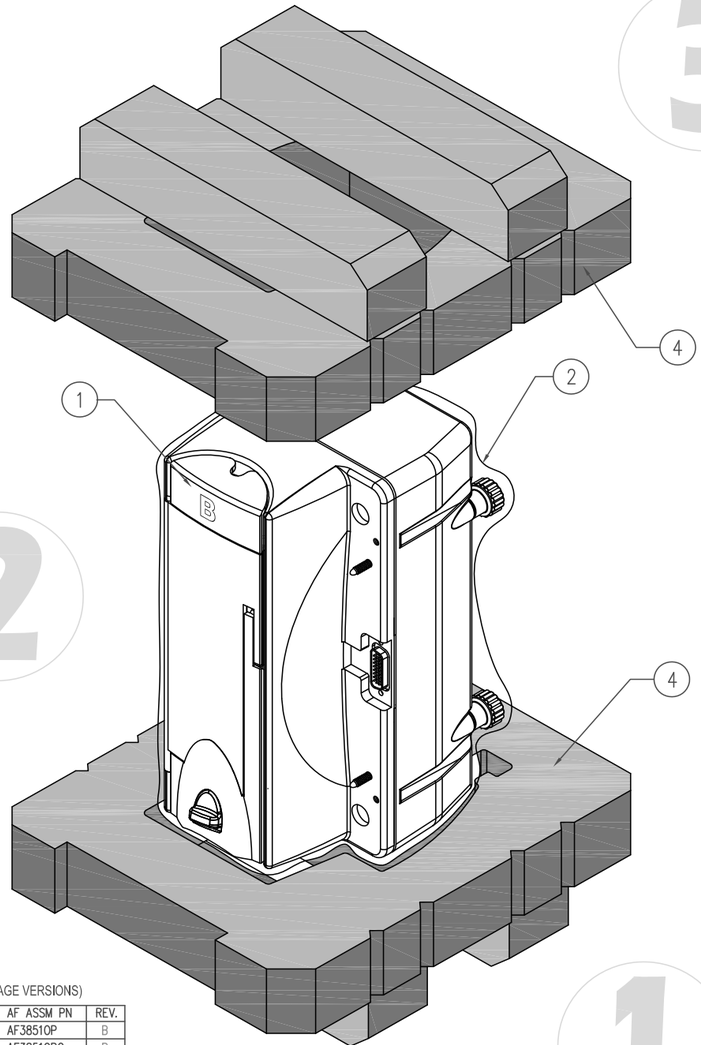
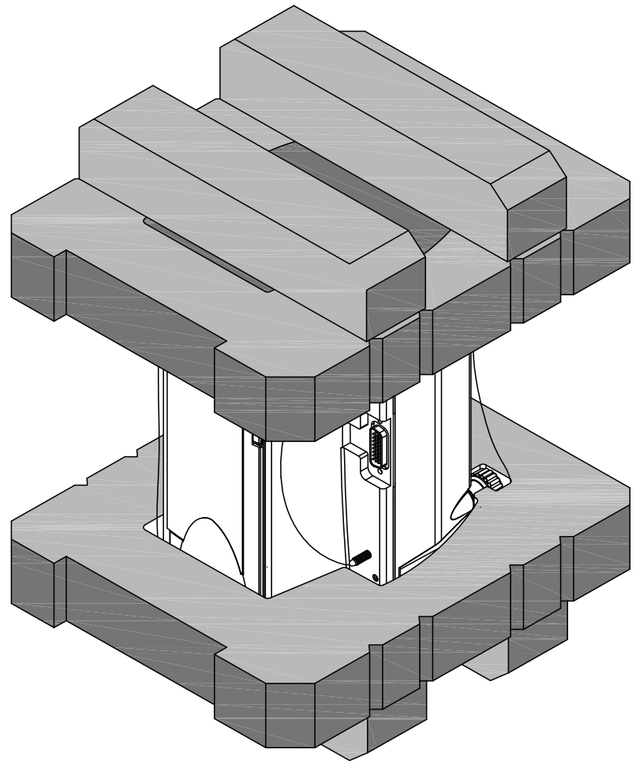
LF21 Rev. A

Figure 5-105. 3850R Final Packing Sheet 2 of 2





*AF ASSM PN CHART (LANGUAGE VERSIONS)

PART #	LANGUAGE	AF ASSM PN	REV.
3851	ENGLISH	AF38510P	B
3851G	GERMAN	AF38510PG	B
3851F	FRENCH	AF38510P	B
3851J	JAPANESE	AF38510PJ	B
3851I	ITALIAN	AF38510PI	B
3851S	SPANISH	AF38510PS	B
3851CH	CHINESE	AF38510PCH	A

NOTES:

1. PREPARE BOTTOM END CAP (ITEM 4) BY REMOVING FOAM MATERIAL FROM THE CENTER OF THE CAP THAT IS SHAPED LIKE THE AF3851 ASSEMBLY. DISCARD REMOVED FOAM MATERIAL.

2. PLACE AF3851 ASSEMBLY (ITEM 1) INTO GUSSETED POLY BAG (ITEM 2) AND WRAP BAG AROUND UNIT FOR PROTECTION. PLACE UNIT IN CUTOUT OF BOTTOM END CAP AS SHOWN, PUSHING DOWN TILL ASSEMBLY IS SECURELY IN PLACE.

3. REMOVE FOAM MATERIAL FROM CENTER OF TOP END CAP THAT IS SHAPED LIKE AF3851 ASSEMBLY. DISCARD REMOVED FOAM MATERIAL. PRESS TOP CAP INTO PLACE ON AF3951 ASSEMBLY UNTIL SECURE (AS SHOWN IN VIEW TO RIGHT).

ITEM	PART NO.	QTY.	DESCRIPTION
11	LB2030	1	LABEL, 2.25 X 1.25, ROLL, 4-PACK
10	LB2029	1	LABEL, 2 X 4, EZ-LATCH ENABLED, SHIPPER
9	M009	1	BAG, POLY, 9 X 12 X 0.002 S-956
8	1130	1	INSTALLATION GUIDE, 3851 SIDECAR PUMP
7	LB2019	1	LABEL, 2 X 4, CE REGISTER MARK, SHIPPER
6	LB2016	1	LABEL, 1.5 X 1.0, ROLL, 4-PACK
5	IVP1056	1	IV SET, STERILE DISP, W/ DRIP CHAMBER
4	M016	1	PACKAGING, END CAPS, PAIR, 3851/3855
3	M015	1	BOX, 14 X 10 X 12, 175LB WHT, 3851/3855
2	M008	1	BAG, POLY, 8 X 10 X 24 X 0.002 GUSSETED
1	AF3851*	1	ASSEMBLY, 3851 MR IV PUMP, SIDE CAR

Rev.	Description	Date
D	PER ECN 000380	23JUN11
C	PER ECN 000368	07JAN11
B	PER ECN 000207	18MAY07
A	PER ECN 000064	04APR06

Revision History

Tolerances unless otherwise noted on dwg.: XX = ± .02, XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 16MAR06
Eng.: GRB Date: 23JUN11
Q.A.: FXC Date: 23JUN11
R.A.: FXC Date: 23JUN11
Mfg.: TWF Date: 23JUN11

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: PACKING ASSEMBLY MRIDIUM 3851

Size: D

Part/Dwg. No: 3851

Rev: D

Cad. Scale: NA Sheet 1 of 2

LF21 Rev. A

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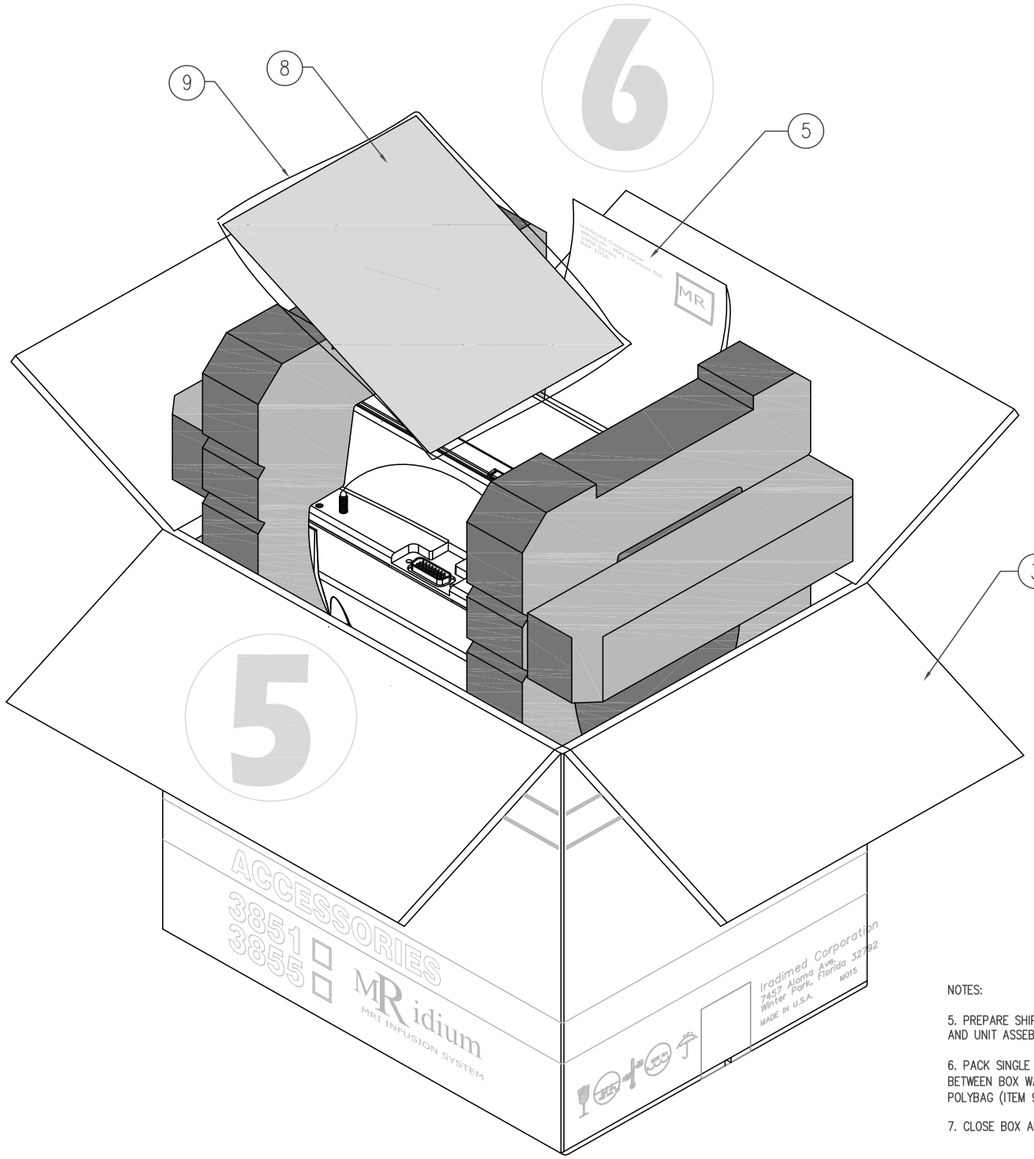
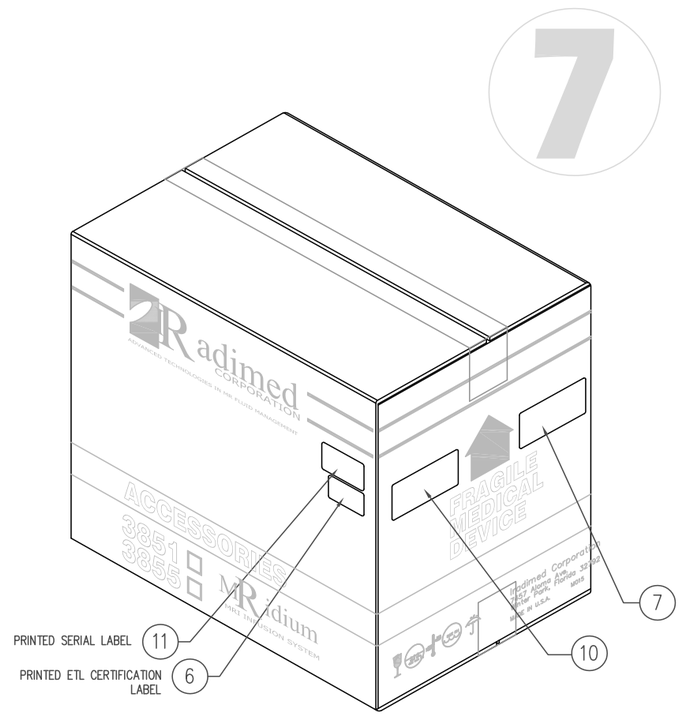
Figure 5-106. 3851 Final Packing Sheet 1 of 2





NOTES:

5. PREPARE SHIPPING BOX (ITEM 3) BY TAPING THE BOTTOM. ROTATE AND PLACE ENDCAP AND UNIT ASSEBLY INTO BOX AS SHOWN WITH FRONT OF AF3851 ASSEMBLY FACING UP.

6. PACK SINGLE IV SET IVP1056 (ITEM 5) INTO BOX BY SLIDING DOWN SIDE AS SHOWN BETWEEN BOX WALL AND AF3851 ASSEMBLY. PLACE INSTALLATION GUIDE (ITEM 8) INTO POLYBAG (ITEM 9) AND PLACE ON TOP OF ASSEMBLY AS SHOWN.

7. CLOSE BOX AND LABEL WITH APPROPRIATE SHIPPING, SERIAL AND CERTIFICATION LABELS.

ITEM	PART NO.	QTY.	DESCRIPTION

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Iradimed Corporation

Drawn: JRN	Date: 16MAR06	
Eng.: GRB	Date: 23JUN11	
Q.A.: FXC	Date: 23JUN11	
R.A.: FXC	Date: 23JUN11	
Mfg.: TWF	Date: 23JUN11	

Do NOT scale this drawing !

Title: PACKING ASSEMBLY MRIDIUM 3851 — Size: D

Part/Dwg. No: 3851 — Rev: D

SEE SHEET 1

Rev.	Description	Date

Revision History

Third Angle Projection

Cod. Scale: NA — Sheet 2 of 2

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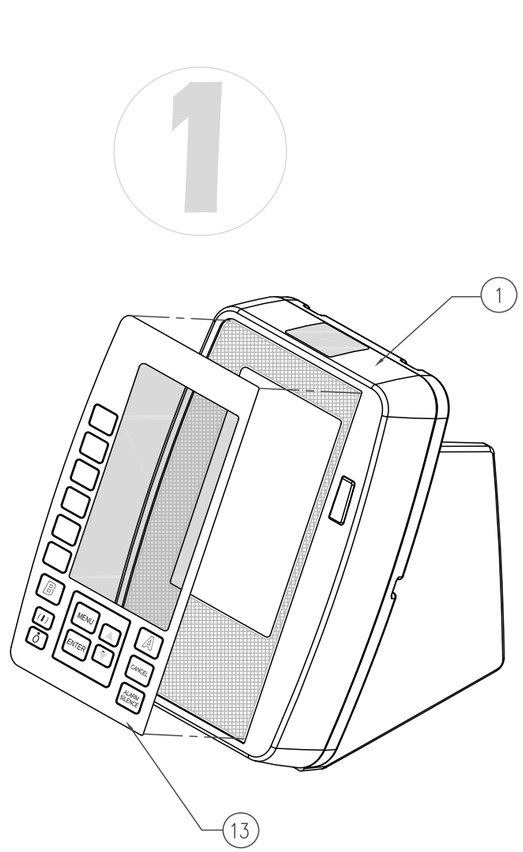
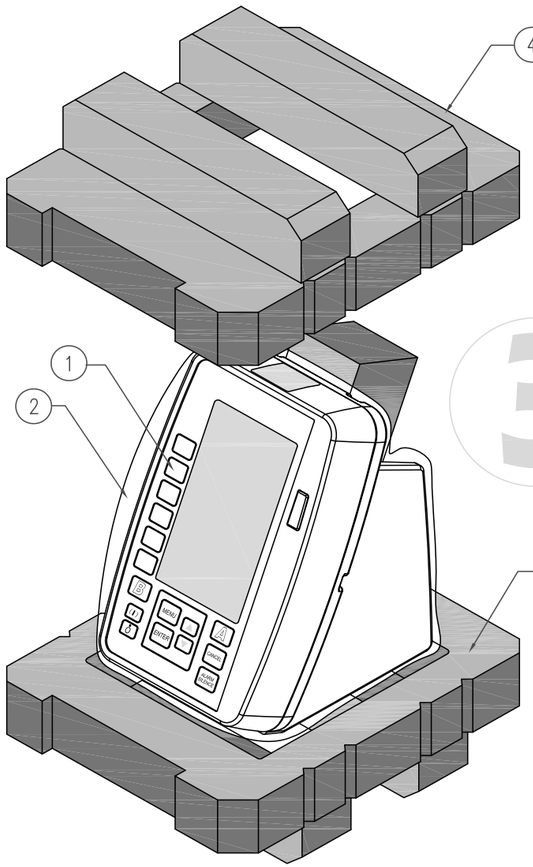
LF21 Rev. A

Figure 5-107. 3851 Final Packing Sheet 2 of 2





OVERLAY PN CHART (LANGUAGE VERSIONS)

PART #	LANGUAGE	OVERLAY PN	REV.
3855	ENGLISH	IVP1010	E
3855G	GERMAN	IVP1010G	A
3855F	FRENCH	IVP1010F	A
3855J	JAPANESE	IVP1010J	A
3855I	ITALIAN	IVP1010	E
3855S	SPANISH	IVP1010	E
3855SW	SWEDISH	IVP1010	E
3855CH	CHINESE	IVP1010	E

*AF ASSM PN CHART (LANGUAGE VERSIONS)

PART #	LANGUAGE	AF ASSM PN	REV.
3855	ENGLISH	AF3855	M
3855G	GERMAN	AF3855G	C
3855F	FRENCH	AF3855F	B
3855J	JAPANESE	AF3855J	C
3855I	ITALIAN	AF3855I	B
3855S	SPANISH	AF3855S	B
3855SW	SWEDISH	AF3855SW	B
3855CH	CHINESE	AF3855CH	B

2

NOTES:

1. APPLY GRAPHIC OVERLAY (ITEM 13) TO AF3855 (ITEM 1) AS SHOWN BY REMOVING PROTECTIVE LAYER FROM MEMBRANE KEYPAD AND ALIGNING OVERLAY ONTO PART. (NOTE: USE LANGUAGE CHART PROVIDED FOR OVERLAY PN FOR EACH LANGUAGE OPTION).

2. PREPARE BOTTOM END CAP (ITEM 4) BY REMOVING FOAM MATERIAL FROM THE CENTER OF THE CAP THAT IS SHAPED LIKE THE BOTTOM OF THE AF3855 ASSEMBLY. DISCARD REMOVED FOAM MATERIAL. PLACE AF3855* ASSEMBLY (ITEM 1)(NOTE: SEE AF ASSEMBLY CHART FOR CORRECT LANGUAGE VERSION) INTO GUSSETED POLY BAG (ITEM 2) AND WRAP BAG AROUND UNIT FOR PROTECTION. PLACE UNIT IN CUTOUT OF BOTTOM END CAP AS SHOWN, PUSHING DOWN TILL ASSEMBLY IS SECURELY IN PLACE.

3. REMOVE SMALLER RECTANGULAR SECTION OF FOAM MATERIAL FROM CENTER OF TOP END CAP THAT IS AT BOTTOM SIDE OF CAP. USE REMOVED FOAM MATERIAL IN BATTERY COMPARTMENT AREA OF AF3855 ASSEMBLY. PRESS TOP CAP INTO PLACE ON AF3955 ASSEMBLY UNTIL SECURE (AS SHOWN IN VIEW TO RIGHT).

ITEM	PART NO.	QTY.	DESCRIPTION
15	M034	2	BAG, POLY, RECLOSE, 8 X 8 X 0.002 S-1699
14	LB2030	1	LABEL, 2.25 X 1.25, ROLL, 4-PACK
13	IVP1010	1	OVERLAY (SEE CHART FOR LANGUAGE VERSION)
12	LB2025	1	LABEL, SHEET, CHANNEL ID MARKERS 1-6
11	1129	1	INST. GUIDE (SEE CHART FOR LANGUAGE VERSION)
10	LB2019	1	LABEL, 2 X 4, ALPA CE MARK, SHIPPER
9	LB2016	2	LABEL, 2.0 X 1.0, ROLL, 4-PACK
8	M009	1	BAG, POLY 9 X 12
7	1128	1	AC POWER CORD, 3.05M, HOSPITAL GRADE
6	M022	1	BAG, POLY 3 X 5, 4 MIL, RECLOSABLE
5	HE13	1	ANTENNA, 2.4 GHz, RA, ANT-2.4-CW-ND
4	M016	1	PACKAGING, END CAPS, PAIR, 3851/3855
3	M015	1	BOX, 14 X 10 X 12, 175LB WHT, 3851/3855
2	M008	1	BAG, POLY, 8 X 10 X 24 X 0.002 GUSSETED
1	AF3855*	1	ASSEMBLY, 3855 MR IV PUMP REMOTE CONTROL

Rev.	Description	Date
G	PER ECN 000374	31MAR11
F	PER ECN 000368	11JAN11
E	PER ECN 000239	25FEB08
D	PER ECN 000207	18MAY07
C	PER ECN 000127	06SEP06
B	PER ECN 000085	02MAY06
A	PER ECN 000064	04APR06

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Third Angle Projection

Drawn: JRN Date: 16MAR06
Eng.: RES Date: 31MAR11
Q.A.: FXC Date: 31MAR11
Mfg.: TWF Date: 31MAR11

Do NOT scale this drawing !

Iradimed Corporation

Title: PACKING ASSEMBLY MRIDIUM 3855

Size: D

Part/Dwg. No: 3855

Rev: G

Cad. Scale: NA

Sheet 1 of 2

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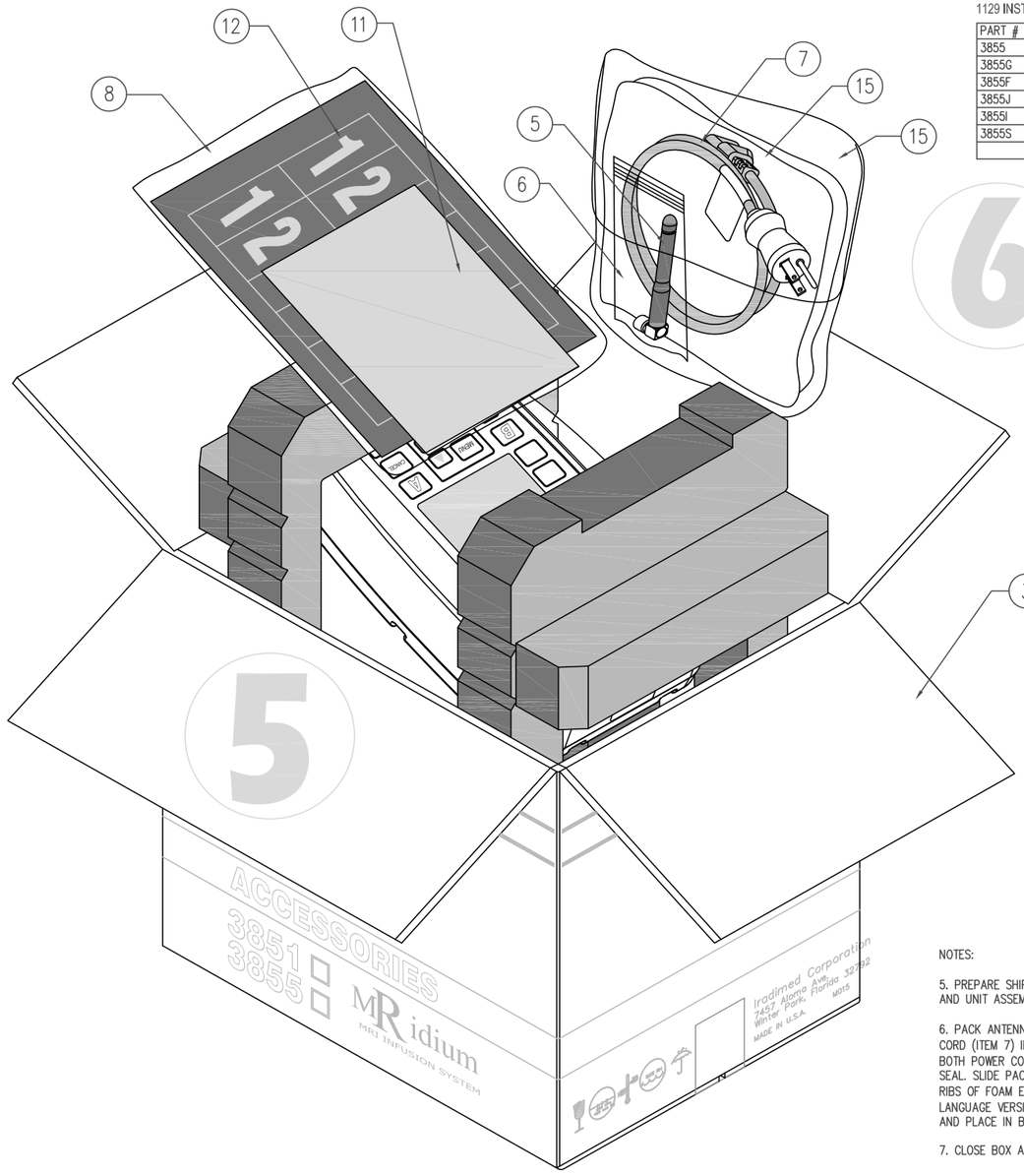
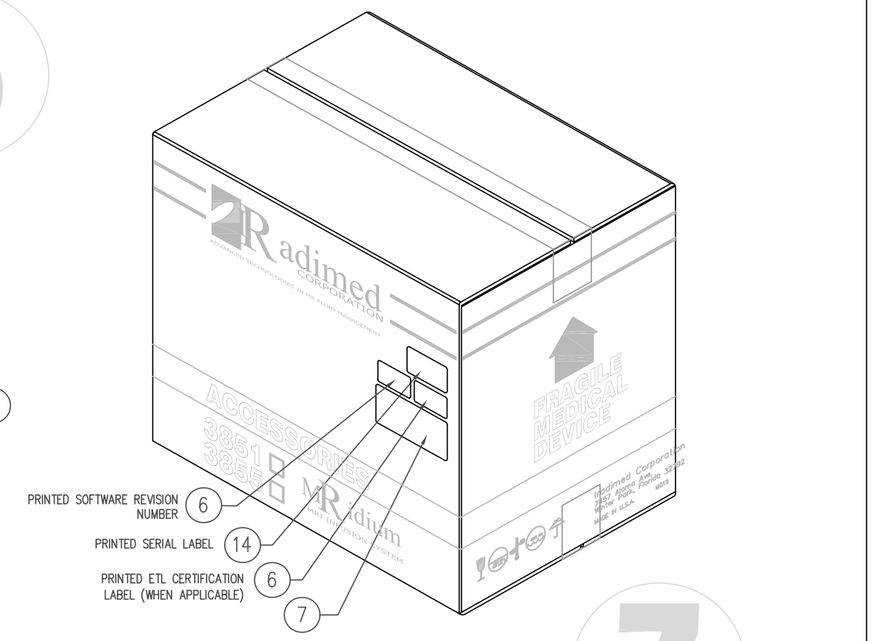
LF21 Rev. A

Figure 5-108. 3855 Final Packing Sheet 1 of 2



1129 INSTALL GUIDE (LANGUAGE VERSIONS)

PART #	LANGUAGE	MANUAL PN
3855	ENGLISH	1129
3855G	GERMAN	1129G
3855F	FRENCH	1129F
3855J	JAPANESE	1129J
3855I	ITALIAN	1129I
3855S	SPANISH	1129S



NOTES:

5. PREPARE SHIPPING BOX (ITEM 3) BY TAPING THE BOTTOM. ROTATE AND PLACE ENDCAP AND UNIT ASSEMBLY INTO BOX AS SHOWN WITH FRONT OF AF3855 ASSEMBLY FACING UP.

6. PACK ANTENNA (ITEM 5) INTO 3 X 5 RECLOSABLE POLY BAG (ITEM 6). PACK AC POWER CORD (ITEM 7) INTO 8 X 8 RECLOSABLE POLY BAG (ITEM 15) AND WRAP CLOSED. PLACE BOTH POWER CORD AND ANTENNA BAGS INTO 8 X 8 RECLOSABLE POLY BAG (ITEM 15) AND SEAL. SLIDE PACKED BAG INTO BOX BETWEEN BOX SIDE AND AF3855 ASSEMBLY BETWEEN RIBS OF FOAM ENDCAPS. PLACE 1129 INSTALLATION GUIDE (ITEM 11 SEE CHART FOR LANGUAGE VERSIONS) AND LB2025 LABEL SHEET (ITEM 12) IN 9 X 12 POLY BAG (ITEM 8) AND PLACE IN BOX BEFORE SEALING.

7. CLOSE BOX AND LABEL WITH APPROPRIATE SHIPPING, SERIAL AND CERTIFICATION LABELS.

ITEM	PART NO.	QTY.	DESCRIPTION
			Tolerances unless otherwise noted on dwg.: XX = ± .02, XXX = ± .010, ∠ = ± 2°
			Drawn: JRN Date: 16MAR06
			Eng.: RES Date: 31MAR11
			Q.A.: FXC Date: 31MAR11
			R.A.: FXC Date: 31MAR11
			Mfg.: TWF Date: 31MAR11
			Do NOT scale this drawing !

SEE SHEET 1

Rev.	Description	Date
Revision History		

Third Angle Projection

Iradimed Corporation

Title: PACKING ASSEMBLY MRIDIUM 3855

Size: D

Part/Dwg. No: 3855

Rev: G

Cad. Scale: NA

Sheet 2 of 2

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LF21 Rev. A

Figure 5-109. 3855 Final Packing Sheet 2 of 2

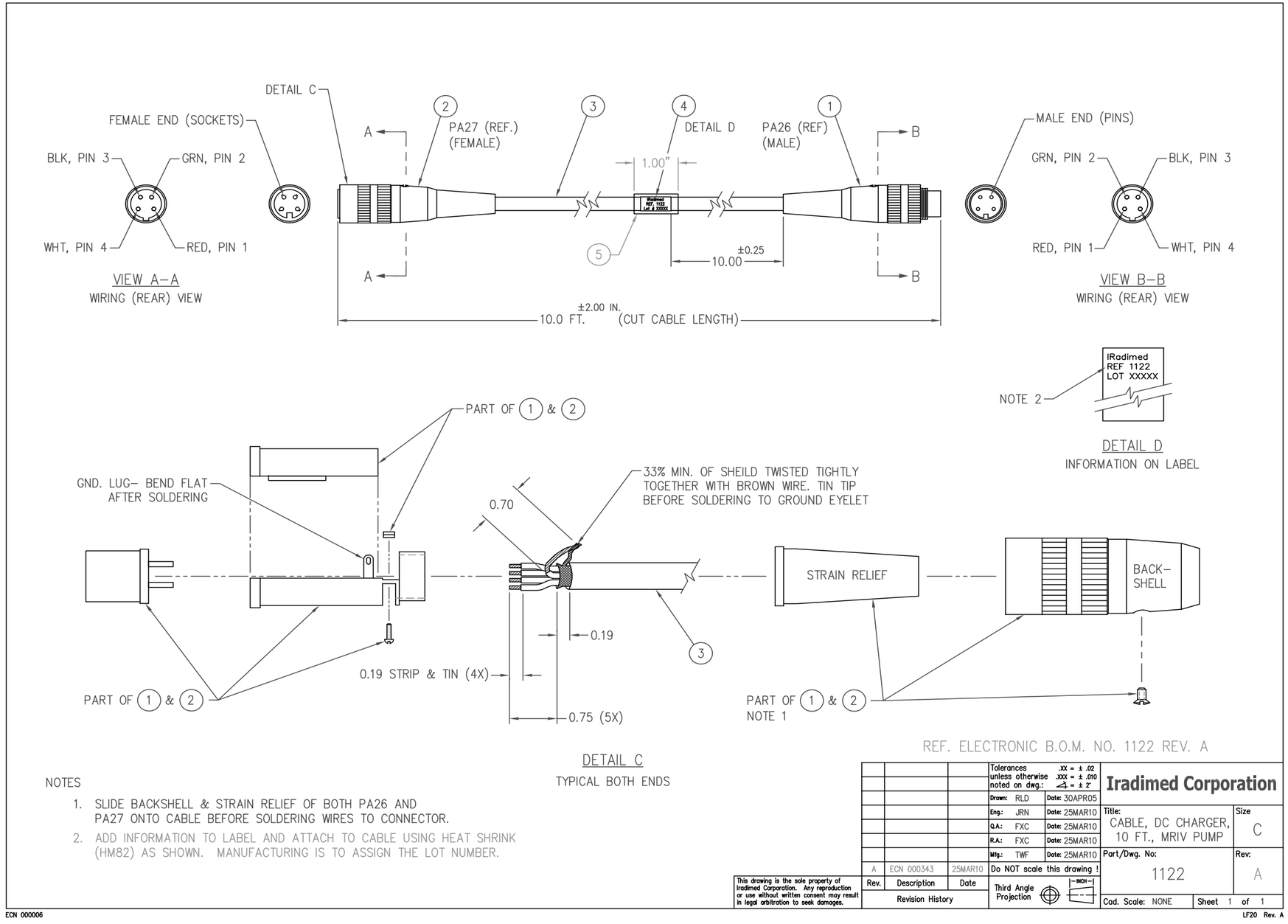

Figure 5-110. 1122 DC Charger Cable

NOTES: